2021-2022 Undergraduate Catalog

California Baptist University

An Institution of the California Southern Baptist Convention

2021-2022 Undergraduate Catalog
72nd SESSION

California Baptist University
8432 Magnolia Avenue, Riverside, CA 92504-3297
951.689.5771 • 1.800.782.3382

NONDISCRIMINATION STATEMENT
In compliance with both state and federal law; California Baptist University does not illegally discriminate on the basis of any protected category, except to the extent it is necessary to fulfill its religious purposes, so as to be in compliance with the 2000 version of the Baptist Faith and Message.

California Baptist University, an educational institution controlled by the California Southern Baptist Convention, takes seriously anti-discrimination provisions under the state law and is committed to providing a learning and living environment that promotes student safety, transparency, personal integrity, civility, and mutual respect. California Baptist University is exempted by the state from California Education Code 66270 to the extent the application of California Education Code 66270 is not consistent with the institution's religious tenets. California Baptist University retains all rights afforded it under federal law and the laws of the State of California.

SPECIAL NOTICE
This catalog does not constitute a contract between California Baptist University and its students. Although every effort has been made to ensure the accuracy of the content of this catalog, the University assumes no liability for any omissions or errors contained herein. California Baptist University reserves the right to alter and revise the contents of this catalog at any time.

All announcements here are subject to revision.

Editing by Christine Dahlgren. 2021.

2021-2022 Traditional Calendars

Fall Semester 2021

Traditional Semester

August

11	Semester Payment Due Date

September

6	Labor Day Holiday (offices open)
7	Classes Begin*
14	Last Day to Add a Class for Credit*
21	Last Day to Drop a Class with Refund*
21	Last Day to Turn in Credit/No Credit Request

November

12	Last Day to Withdraw from a Class with "W" (no refund)*
15	Graduation Application Deadline for Spring 2022 posting date
22-26	Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 23rd)
29	Classes Resume, Offices Open

December

9-14	Final Examinations
14	Traditional Semester Closes
15-16	Commencement Exercises
21	Offices Closed (December 21 - 31)

Session 1

August

11	Semester Payment Due Date
30	Classes Begin* - Session 1

September

7	Last Day to Add a Class for Credit* - Session 1
13	Last Day to Drop a Class with Refund* - Session 1

27 Last Day to Withdraw from a Class with "W" (no refund)* - Session 1

October

24 Session 1 Closes

Session 2

October

25 Classes Begin* - Session 2

November

1 Last Day to Add a Class for Credit* - Session 2

8 Last Day to Drop a Class with Refund* - Session 2

15 Graduation Application Deadline for Spring 2022 posting date

22 Last Day to Withdraw from a Class with "W" (no refund)* - Session 2

25-26 Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 23rd)

29 Classes Resume, Offices Open

December

15-16 Commencement Exercises

19 Session 2 Closes

* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the 2021-2022 Online and Professional Studies Calendars.

Spring Semester 2022

Traditional Semester

January

3	Offices Open
5	Semester Payment Due Date
10	Classes Begin*
17	Martin Luther King Jr. Holiday (no classes, offices closed)
18	Last Day to Add a Class for Credit*
24	Last Day to Drop a Class with Refund*

February

1	Last Day to Turn in Credit/No Credit Request

March

2	Postmark Deadline for FAFSA (Cal Grant)
7-11	Spring Break (no classes)
15	Graduation Application Deadline for Summer 2022 posting date
21	Last Day to Withdraw from a Class with "W" (no refund)*

April

15	Good Friday Holiday (no classes, offices closed)
16-18	Easter Observance (classes resume at 4:00pm on the 18th, offices closed)
19	Offices Open
19-22	Final Examinations
23	Traditional Semester Closes
25-27	Commencement Exercises (tentative)

Session 1

January

5	Semester Payment Due Date
10	Classes Begin* - Session 1
17	Martin Luther King Holiday (no classes, offices closed)
18	Last Day to Add a Class for Credit* - Session 1

24	Last Day to Drop a Class with Refund* - Session 1

February

7	Last Day to Withdraw from a Class with "W" (no refund)* - Session 1

March

6	Session 1 Closes

Session 2

March

7	Classes Begin* - Session 2
14	Last Day to Add a Class for Credit* - Session 2
15	Graduation Application Deadline for Summer 2022 posting date
21	Last Day to Drop a Class with Refund* - Session 2

April

4	Last Day to Withdraw from a Class with "W" (no refund)* - Session 2
15	Good Friday Holiday (no classes, offices closed)
16-18	Easter Observance (classes resume at 4:00pm on the 18th, offices closed)
19	Offices Open
25-27	Commencement Exercises (tentative)

May

1	Session 2 Closes

* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the 2021-2022 Online and Professional Studies Calendars.

Summer Semester 2022

Traditional Semester

May

4	Semester Payment Due Date
9	Classes Begin*
16	Last Day to Add a Class for Credit*
23	Last Day to Drop a Class with Refund*
30	Memorial Day Holiday (no classes, offices closed)

July

4	Independence Day Holiday (no classes, offices closed)
15	Last Day to Withdraw from a Class with "W" (no refund)*
15	Graduation Application Deadline for Fall 2022 posting date

August

12	Traditional Semester Closes
17-18	Commencement Exercises (tentative)

Session 1

May

4	Semester Payment Due Date
9	Classes Begin* - Session 1
16	Last Day to Add a Class for Credit*- Session 1
23	Last Day to Drop a Class with Refund* - Session 1
30	Memorial Day Holiday (no classes, offices closed)

June

6	Last Day to Withdraw from a Class with "W" (no refund)* - Session 1

July

3	Session 1 Closes

Session 2

July

4	Independence Day Holiday (no classes, offices closed)
5	Classes Begin* - Session 2
12	Last Day to Add a Class for Credit* - Session 2
15	Graduation Application Deadline for Fall 2022 posting date
19	Last Day to Drop a Class with Refund* - Session 2

August

2	Last Day to Withdraw from a Class with "W" (no refund)* - Session 2
17-18	Commencement Exercises (tentative)
28	Session 2 Closes

* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the 2021-2022 Online and Professional Studies Calendars.

2021-2022 Online and Professional Studies Calendars

Fall Semester 2021

Session 1

August

11	Semester Payment Due Date
30	Classes Begin - Session 1 and Session 3

September

6	Labor Day Holiday (no classes, offices open)
7	Last Day to Add a Class for Credit - Session 1 and Session 3
13	Last Day to Drop a Class with a Refund - Session 1 and Session 3
27	Last Day to Withdraw from a Class with a "W" (no refund) - Session 1

October

24	Session 1 Closes

Session 2

October

25	Classes Begin - Session 2
29	Last Day to Withdraw from a Class with a "W" (no refund) - Session 3

November

1	Last Day to Add a Class for Credit - Session 2
8	Last Day to Drop a Class with a Refund - Session 2
15	Graduation Application Deadline for Spring 2022 posting date
22	Last Day to Withdraw from a Class with a "W" (no refund) - Session 2
23-28	Offices Closed at 12:00 noon on 23rd
25-26	Thanksgiving Holiday (no classes)
27	Classes Resume
29	Offices Open

December

15-16	Commencement Exercises
19	Semester Closes - Session 2 and Session 3
21	Offices Closed (December 21 - 31)

Spring Semester 2022

Session 1

January

3	Offices Open
5	Semester Payment Due Date
10	Classes Begin - Session 1 and Session 3
17	Martin Luther King Jr. Holiday (no classes, offices closed)
18	Last Day to Add a Class for Credit - Session 1 and Session 3
24	Last Day to Drop a Class with a Refund - Session 1 and Session 3

February

7	Last Day to Withdraw from a Class with a "W" (no refund) - Session 1

March

2	Postmark Deadline for FAFSA (Cal Grant)
6	Session 1 Closes

Session 2

March

7	Classes Begin - Session 2
11	Last Day to Withdraw from a Class with a "W" (no refund) - Session 3
14	Last Day to Add a Class for Credit - Session 2
15	Graduation Application Deadline for Summer 2022 posting date
21	Last Day to Drop a Class with a Refund - Session 2

April

4	Last Day to Withdraw from a Class with a "W" (no refund) - Session 2
15	Good Friday Holiday (classes in session, offices closed)
16-18	Easter Observance (classes in session, offices closed)
19	Offices Open
25-27	Commencement Exercises (tentative)

May

1	Semester Closes - Session 2 and Session 3

Summer Semester 2022

Session 1

May

4	Semester Payment Due Date
9	Classes Begin - Session 1 and Session 3
16	Last Day to Add a Class for Credit - Session 1 and Session 3
23	Last Day to Drop a Class with a Refund - Session 1 and Session 3
30	Memorial Day Holiday (no classes, offices closed)

June

6	Last Day to Withdraw from a Class with a "W" (no refund) - Session 1

July

3	Session 1 Closes

Session 2

July

4	Independence Day Holiday (no classes, offices closed)
5	Classes Begin - Session 2
8	Last Day to Withdraw from a Class with a "W" (no refund) - Session 3
12	Last Day to Add a Class for Credit - Session 2
15	Graduation Application Deadline for Fall 2022 posting date
19	Last Day to Drop a Class with a Refund - Session 2

August

2	Last Day to Withdraw from a Class with a "W" (no refund) - Session 2
17-18	Commencement Exercises (tentative)
28	Semester Closes - Session 2 and Session 3

2021-2022 Traditional Final Examination Schedule

Fall Semester 2021

Thursday, December 9

7:00 - 9:00	All	7:00 - 8:30	Tuesday, Thursday and Tuesday Hybrid classes
9:30 - 11:30	All	10:30 - 12:00	Tuesday, Thursday and Tuesday Hybrid classes
12:00 - 2:00	All	2:00 - 3:30	Tuesday, Thursday and Tuesday Hybrid classes
2:30 - 4:30	All	3:45 - 5:15	Tuesday, Thursday and Tuesday Hybrid classes

Friday, December 10

7:00 - 9:00	All	7:00 - 8:00	Monday, Wednesday, Friday and Monday Hybrid classes
9:30 - 11:30	All	9:30 - 10:30	Monday, Wednesday, Friday and Monday Hybrid classes
12:00 - 2:00	All	12:00 - 1:00	Monday, Wednesday, Friday and Monday Hybrid classes
2:30 - 4:30	All	3:45 - 4:45	Monday, Wednesday, Friday and Monday Hybrid classes

Saturday, December 11

TBD	All	TBD	Wednesday Hybrid and Thursday Hybrid classes*

Monday, December 13

7:00 - 9:00	All	8:15 - 9:15	Monday, Wednesday, Friday and Monday Hybrid classes
9:30 - 11:30	All	10:45 - 11:45	Monday, Wednesday, Friday and Monday Hybrid classes
12:00 - 2:00	All	1:15 - 2:15	Monday, Wednesday, Friday and Monday Hybrid classes

Tuesday, December 14

7:00 - 9:00	All	8:45 - 10:15	Tuesday, Thursday and Tuesday Hybrid classes
9:30 - 11:30	All	12:15 - 1:45	Tuesday, Thursday and Tuesday Hybrid classes
12:00 - 2:00	All	2:30 - 3:30	Monday, Wednesday, Friday and Monday Hybrid classes

Spring Semester 2022

Tuesday, April 19

7:00 - 9:00	All	7:00 - 8:30	Tuesday, Thursday and Thursday Hybrid classes
9:30 - 11:30	All	10:30 - 12:00	Tuesday, Thursday and Thursday Hybrid classes
12:00 - 2:00	All	2:00 - 3:30	Tuesday, Thursday and Thursday Hybrid classes
2:30 - 4:30	All	3:45 - 5:15	Tuesday, Thursday and Thursday Hybrid classes

Wednesday, April 20

7:00 - 9:00	All	7:00 - 8:00	Monday, Wednesday, Friday and Wednesday Hybrid classes
9:30 - 11:30	All	9:30 - 10:30	Monday, Wednesday, Friday and Wednesday Hybrid classes
12:00 - 2:00	All	12:00 - 1:00	Monday, Wednesday, Friday and Wednesday Hybrid classes
2:30 - 4:30	All	3:45 - 4:45	Monday, Wednesday, Friday and Wednesday Hybrid classes

Thursday, April 21

7:00 - 9:00	All	8:45 - 10:15	Tuesday, Thursday and Thursday Hybrid classes
9:30 - 11:30	All	12:15 - 1:45	Tuesday, Thursday and Thursday Hybrid classes
12:00 - 2:00	All	2:30 - 3:30	Monday, Wednesday, Friday and Wednesday Hybrid classes

Friday, April 22

7:00 - 9:00	All	8:15 - 9:15	Monday, Wednesday, Friday and Wednesday Hybrid classes
9:30 - 11:30	All	10:45 - 11:45	Monday, Wednesday, Friday and Wednesday Hybrid classes
12:00 - 2:00	All	1:15 - 2:15	Monday, Wednesday, Friday and Wednesday Hybrid classes

Saturday, April 23

TBD	All	TBD	Monday Hybrid and Tuesday Hybrid classes*

* Hybrid courses with an examination time of TBD may be scheduled on the designated Saturday or an alternate exam weekday, see InsideCBU for assigned examination times. Examinations for courses with meeting patterns in the evening will be given during the final examination week at the time the class regularly meets. Courses with other meeting patterns *may* have a final exam scheduled during another week or alternative arranged time.

2022-2023 Traditional Calendars (Proposed)

Fall Semester 2022

Traditional Semester

August

10	Semester Payment Due Date

September

5	Labor Day (no classes, offices open)
6	Classes Begin*
13	Last Day to Add a Class for Credit*
20	Last Day to Drop a Class with Refund*
20	Last Day to Turn in Credit/No Credit Request

November

11	Last Day to Withdraw from a Class with "W" (no refund)*
15	Graduation Application Deadline for Spring 2023 posting date
21-25	Thanksgiving Holiday (offices closed at 12:00 noon on 11/22)
28	Offices Open

December

8-13	Final Examinations
13	Traditional Semester Closes
14-15	Commencement Exercises (tentative)
21	Offices Closed (December 21- January 2)

Session 1

August

10	Semester Payment Due Date

September

6	Classes Begin* - Session 1
13	Last Day to Add a Class for Credit* - Session 1
20	Last Day to Drop a Class with Refund* - Session 1

October

3 Last Day to Withdraw from a Class with "W" (no refund)* - Session 1

30 Session 1 Closes

Session 2

October

31 Classes Begin* - Session 2

November

7 Last Day to Add a Class for Credit* - Session 2

14 Last Day to Drop a Class with Refund* - Session 2

15 Graduation application Deadline for Spring 2023 posting date

24-25 Thanksgiving Holiday (no classes, offices closed at 12:00 noon on the 22nd)

26 Classes Resume, Offices Open

28 Last Day to Withdraw from a Class with "W" (no refund)* - Session 2

December

14-15 Commencement Exercises (tentative)

23 Session 2 Closes

* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the 2022-2023 Online and Professional Studies Calendar (Proposed).

Spring Semester 2023

Traditional Semester

January

3	Offices Open
4	Semester Payment Due Date
16	Martin Luther King Jr. Holiday (no classes, offices closed)
17	Classes Begin*
24	Last Day to Add a Class for Credit*
31	Last Day to Drop a Class with Refund*
31	Last Day to Turn in Credit/No Credit Request

March

2	Postmark Deadline for FAFSA (Cal Grant)
13-17	Spring Break (no classes)
15	Graduation Application Deadline for Summer 2023 posting date
27	Last Day to Withdraw from a Class with "W" (no refund)*

April

7	Good Friday Holiday (no classes, offices closed)
8-10	Easter Observance (classes resume at 4:00pm on the 10th, offices closed)
11	Offices Open
25-29	Final Examinations
29	Traditional Semester Closes

May

1-3	Commencement Exercises (tentative)

Session 1

January

4	Semester Payment Due Date
9	Classes Begin* - Session 1
16	Martin Luther King Holiday (no classes, offices closed)
17	Last Day to Add a Class for Credit* - Session 1

23 Last Day to Drop a Class with Refund* - Session 1

February

6 Last Day to Withdraw from a Class with "W" (no refund)* - Session 1

March

5 Session 1 Closes

Session 2

March

6 Classes Begin* - Session 2

13 Last Day to Add a Class for Credit* - Session 2

15 Graduation Application Deadline for Summer 2023 posting date

20 Last Day to Drop a Class with Refund* - Session 2

April

3 Last Day to Withdraw from a Class with "W" (no refund)* - Session 2

7 Good Friday Holiday (no classes, offices closed)

8-10 Easter Observance (classes resume at 4:00pm on the 4th, offices closed)

11 Offices Open

30 Session 2 Closes

May

1-3 Commencement Exercises (tentative)

* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the 2022-2023 Online and Professional Studies Calendar (Proposed).

Summer Semester 2023

Traditional Semester

May

3	Semester Payment Due Date
8	Classes Begin*
15	Last Day to Add a Class for Credit*
22	Last Day to Drop a Class with Refund*
29	Memorial Day Holiday (no classes, offices closed)

July

4	Independence Day Holiday (no classes, offices closed)
14	Last Day to Withdraw from a Class with "W" (no refund)*
17	Graduation Application Deadline for Fall 2023 posting date

August

11	Traditional Semester Closes
16-17	Commencement Exercises (tentative)

Session 1

May

3	Semester Payment Due Date
8	Classes Begin* - Session 1
15	Last Day to Add a Class for Credit*- Session 1
22	Last Day to Drop a Class with Refund* - Session 1
29	Memorial Day Holiday (no classes, offices closed)

June

5	Last Day to Withdraw from a Class with "W" (no refund)* - Session 1

July

2	Session 1 Closes

Session 2

July

3	Classes Begin* - Session 2
4	Independence Day Holiday (no classes, offices closed)
10	Last Day to Add a Class for Credit* - Session 2
14	Graduation Application Deadline for Fall 2023 posting date
17	Last Day to Drop a Class with Refund* - Session 2
31	Last Day to Withdraw from a Class with "W" (no refund)* - Session 2

August

16-17	Commencement Exercises (tentative)
27	Session 2 Closes

* For courses with alternate begin and end dates, please see InsideCBU for alternate add, drop and withdraw dates. For Online and Professional Studies semester dates, please refer to the 2022-2023 Online and Professional Studies Calendar (Proposed).

2022-2023 Online and Professional Studies Calendar (Proposed)

Fall Semester 2022

Session 1

August

10	Semester Payment Due Date

September

5	Labor Day Holiday (no classes, offices open)
6	Classes Begin - Session 1 and Session 3
13	Last Day to Add a Class for Credit - Session 1 and Session 3
20	Last Day to Drop a Class with a Refund - Session 1 and Session 3

October

3	Last Day to Withdraw from a Class with a "W" (no refund) - Session 1
30	Session 1 Closes

Session 2

October

31	Classes Begin - Session 2

November

4	Last Day to Withdraw from a Class with a "W" (no refund) - Session 3
7	Last Day to Add a Class for Credit - Session 2
14	Last Day to Drop a Class with a Refund - Session 2
15	Graduation Application Deadline for Spring 2023 posting date
22-27	Offices Closed at 12:00 noon on 22nd
24-25	Thanksgiving Holiday (no classes)
26	Classes Resume
28	Offices Open
28	Last Day to Withdraw from a Class with a "W" (no refund) - Session 2

December

14-15	Commencement Exercises (tentative)
21	Offices Closed (December 21 - January 2)
23	Semester Closes - Session 2 and Session 3

Spring Semester 2023

Session 1

January

3	Offices Open
4	Semester Payment Due Date
9	Classes Begin - Session 1 and Session 3
16	Martin Luther King Jr. Holiday (no classes, offices closed)
17	Last Day to Add a Class for Credit - Session 1 and Session 3
23	Last Day to Drop a Class with a Refund - Session 1 and Session 3

February

6	Last Day to Withdraw from a Class with a "W" (no refund) - Session 1

March

2	Postmark Deadline for FAFSA (Cal Grant)
5	Session 1 Closes

Session 2

March

6	Classes Begin - Session 2
10	Last Day to Withdraw from a Class with a "W" (no refund) - Session 3
13	Last Day to Add a Class for Credit - Session 2
15	Graduation Application Deadline for Summer 2023 posting date
20	Last Day to Drop a Class with a Refund - Session 2

April

3	Last Day to Withdraw from a Class with a "W" (no refund) - Session 2
7	Good Friday Holiday (no classes, offices closed)
8-10	Easter Observance (classes in session, offices closed)
11	Offices Open
30	Semester Closes - Session 2 and Session 3

May

1-3	Commencement Exercises (tentative)

Summer Semester 2023

Session 1

May

3	Semester Payment Due Date
8	Classes Begin - Session 1 and Session 3
15	Last Day to Add a Class for Credit - Session 1 and Session 3
22	Last Day to Drop a Class with a Refund - Session 1 and Session 3
29	Memorial Day Holiday (no classes, offices closed)

June

5	Last Day to Withdraw from a Class with a "W" (no refund) - Session 1

July

2	Session 1 Closes

Session 2

July

3	Classes Begin - Session 2
4	Independence Day Holiday (no classes, offices closed)
7	Last Day to Withdraw from a Class with a "W" (no refund) - Session 3
10	Last Day to Add a Class for Credit - Session 2
14	Graduation Application Deadline for Fall 2023 posting date
17	Last Day to Drop a Class with a Refund - Session 2
31	Last Day to Withdraw from a Class with a "W" (no refund) - Session 2

August

16-17	Commencement Exercises (tentative)
27	Semester Closes - Session 2 and Session 3

President's Message

Dr. Ronald L. Ellis
President

Ms. Janie Armentrout
Administrative Assistant to the President
Phone 951.343.4210
FAX 951.343.4511

Dear Friend:

Welcome to California Baptist University! I look forward to greeting you personally when the opportunity permits, but for now allow me to congratulate you for deciding to pursue your educational goals at CBU and to thank you for trusting us to help you reach those goals.

Since 1950, students have chosen California Baptist University for the caring personal attention they receive and for high quality academic programs taught by faculty members who recognize the importance of spiritual development as well as intellectual growth.

CBU remains faithful to the Christian values and principles found in the Great Commission, Christ's challenge to his followers found in Matthew 28:19-20:

"Go ye therefore and teach all nations, baptizing them in the name of the Father, and of the Son, and of the Holy Ghost, teaching them to observe all things whatsoever I have commanded you; and lo, I am with you always, even unto the end of the world."

At CBU, we work hard to fulfill this commandment by integrating faith and learning and by offering a wide range of opportunities for service. Throughout Southern California and around the world, we are gaining a reputation to match our vision of "a University Committed to the Great Commission."

For many students, the decision to share the CBU experience marks the first step in a long-term relationship. We trust it will be a positive and rewarding experience for you. This is an exciting time to be part of the CBU community and we are genuinely pleased that you are here.

Once again, welcome to California Baptist University and may the Lord continue to bless!

Your brother in Christ,

Ronald L. Ellis, Ph.D.

President

The University

History

On September 18, 1950, the Los Angeles Southern Baptist Association opened the doors of California Baptist College in El Monte to students who came seeking a liberal arts education in a Christian environment. The college began operations with 42 students in Fall 1950; 120 were enrolled during the 1950-51 academic year.

In 1955, after four years of continued growth, the college relocated to larger facilities in Riverside. Growth in all areas paved the way for the institution to become a university on September 25, 1998.

Location and Environment

Riverside is located in the Los Angeles Basin, sixty miles east of downtown L.A. Freeways lead into Riverside from every direction, and the area is served by international airports in nearby Ontario and Los Angeles.

California Baptist University is surrounded by cultural and scientific opportunities for student of all interests, and the proximity of other colleges and universities makes possible inter-library and inter-cultural exchanges.

Mission Statement

The primary purpose of this corporation is to conduct regular four-year college courses in education, music, sciences, and the liberal arts, and to grant certificates, diplomas, and any and all degrees evidencing completion of any course of training, together with any and all honorary degrees and to provide training for Baptist youth and others desiring to be affiliated with Baptist theology and theological instruction and such other instruction as may be needful and advantageous in preparing and qualifying ministers and others for Christian work.[1]

Philosophy Statement

California Baptist University is a Christian liberal arts institution founded by Southern Baptists to serve the world. As such, the university community provides an accepting, caring Christian atmosphere in which the growth of individuals is enhanced by spiritual formation, personal development, vocational preparation, and a sound, academic, liberating education. In the midst of the pursuit of truth, individuals are encouraged to investigate, practice, and refine their aesthetic, moral, social, and spiritual values in order to prepare themselves to make substantial contributions to the cause of Christ as skilled professionals, thinking citizens, and educated persons.

Goals

To implement its philosophy, the University strives:

1. To reflect, in life and thought, historic Southern Baptist principles, such as:
    a. The Lordship of Jesus Christ.
    b. The competency of the individual soul before God.
    c. The Scriptures as the authoritative guide for doctrine and practice.
    d. The separation of Church and State.
    e. The autonomy of the local church.
2. To help students observe and interact with a community that effectively models Christian characteristics and values.
3. To offer a selection of programs that will attract a wide range of qualified students.
4. To encourage a free exchange of ideas by providing a wide variety of spiritual, intellectual, cultural, and social learning experiences both within and outside the classroom.
5. To encourage high standards of scholarship.
6. To provide support for students experiencing academic and personal difficulties.

7. To encourage each member of the University community to be involved in a lifelong, personal Christian pilgrimage.
8. To enable its educators to engage in continuing professional development.
9. To develop mature individuals of genuine Christian character who can contribute to churches and effect changes in society for its betterment.
10. To develop specific leadership for the churches and general work of the Southern Baptist Convention.

University Student Outcomes

California Baptist University desires that each student acquire certain knowledge, skills, values, and aspirations during their collegiate experience. The University seeks to provide academic programs that prepare students for professional careers, as well as co-curricular programs that foster an environment supporting the intellectual, physical, social, and spiritual development of each student. Within these arenas of the student experience, the University, through its faculty and administration, has identified student outcomes as desirable and reflective of the impact it seeks to have in the lives of its students.

Upon completion of a degree program, each student at California Baptist University shall be:

Biblically Rooted

- Demonstrate spiritual literacy, including Biblical Christian faith and practice, Baptist perspectives, and the Christian's role in fulfilling the Great Commission.

Globally Minded

- Respect diverse religious, cultural, philosophical, and aesthetic experiences and perspectives.

Academically Prepared

- Use critical thinking skills to demonstrate literacy: listening, speaking, writing, reading, viewing, and visual representing.
- Demonstrate competence in mathematical, scientific, and technological skills.

Equipped to Serve

- Transfer academic studies to a profession and the workplace.
- Implement a personal and social ethic that results in informed participation in multiple levels of community.

Council for Christian Colleges & Universities

California Baptist University is a member of the Council for Christian Colleges & Universities, a higher education association of more than 180 Christian institutions around the world. With campuses across the globe, including more than 150 in the U.S. and Canada and more than 30 from an additional 18 countries. Membership in CCCU provides CBU students access to numerous off-campus learning opportunities: an American Studies program in Washington, D.C.; a Contemporary Music Program; the Los Angeles Film Studies Center; and an increasing number of overseas travel programs.

American Studies Program (ASP)

Founded in 1976, the American Studies Program has served hundreds of students from member institutions as a "Washington, D.C. campus." ASP uses Washington as a stimulating educational laboratory where collegians gain hands-on experience with an internship in their chosen field. Internships are tailored to fit the student's talents and aspirations and are available in a wide range of fields. They also explore pressing national and international issues in

public policy seminars that are issue-oriented, interdisciplinary, and led by ASP faculty and Washington professionals. Through interdisciplinary reflection on public life and vocation, practical marketplace experiences, and community living, the purpose of the program is to create an atmosphere for students: first, to develop an appreciation for how the integral character of biblical faith relates to thinking critically about public policy and marketplace issues, and second, to nurture a desire to take up responsible Christ-centered service in their personal and public vocations, whatever their career paths or walks of life. The mission of the program is to help students gain an integral biblical faith for thinking critically about public affairs and for responding faithfully in vocational service.

Contemporary Music Program (CMP)

The Contemporary Music Program provides students the opportunity to live and work in community while seeking to understand how God will have them integrate music, faith, and business. Both interdisciplinary and multidisciplinary in nature, the CMP offers two tracks: the Artist Track and the Executive Track. The Artist Track is tailored to students considering careers as vocalists, musicians, songwriters, recording artists, performers, producers, and recording engineers. The Executive Track is designed for business, arts management, marketing, communications, and other majors interested in possible careers as artist managers, agents, record company executives, music publishers, concert promoters and entertainment industry entrepreneurs. Both Artist and Executive track students receive instruction, experience, and a uniquely Christian perspective on creativity and the marketplace, while working together to create and market a recording of original music. Both tracks include course work, labs, directed study, and a practicum.

Los Angeles Film Studies Center (LAFSC)

The Los Angeles Film Studies Center is designed to train students of CCCU member institutions to serve in various aspects of the film industry with both professional skill and Christian integrity. Students live, learn, and work in the L.A. area near major motion picture studios. The curriculum consists of two required seminars focusing on the role of film in culture and the relationship of faith to work in this very influential industry. In addition, students choose two elective courses from a variety of offerings in film studies. Internships in various segments of the film industry provide students with hands-on experience. The combination of the internship and seminars allow students to explore the film industry within a Christian context and from a liberal arts perspective.

Educational Standings

California Baptist University is incorporated under the laws of the State of California as a university of arts and sciences authorized to grant the degrees of Associate of Science, Bachelor of Applied Theology, Bachelor of Arts, Bachelor of Computer Science, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Biomedical Engineering, Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical and Computer Engineering, Bachelor of Science in Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Nursing, Bachelor of Science in Software Engineering, Bachelor of Social Work, Master of Architecture, Master of Arts, Master of Business Administration, Master of Music, Master of Public Administration, Master of Public Health, Master of Science, Master of Science in Counseling Psychology, Master of Science in Nursing, Master of Social Work, Doctor of Business Administration, Doctor of Education, Doctor of Nursing Practice, Doctor of Philosophy, Doctor of Psychology, Doctor of Public Administration, and Doctor of Social Work.

California Baptist University is accredited by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC)* and abides by WSCUC Policy on Substantive Change and the Policy on Distance and Technology-Mediated Instruction. Certain programs within the School of Business and the Division of Online and Professional Studies are accredited by the Accreditation Council for Business Schools and Programs (ACBSP); the School of Music is accredited by the National Association of Schools of Music (NASM); through the College of Behavioral and Social Sciences the counseling psychology degree program is accredited by the Board of Behavioral Sciences (BBS) and the master of social work degree program is accredited by the Council on Social Work Education (CSWE); through the College of Engineering the civil engineering, mechanical engineering, and electrical and computer engineering degree programs are accredited by the Engineering Accreditation Commission of the ABET, http://www.abet.org, and the construction management program is accredited through the American Council for Construction Education (ACCE); through the College of Health Science, Department of Allied Health Professions the

athletic training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) and the physical therapist assistant program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE); through the College of Nursing the nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE); through the College of Architecture, Visual Arts, and Design the master of architecture degree program is accredited by the National Architectural Accrediting Board (NAAB).

California Baptist University is approved for teacher education by the State of California Commission on Teacher Credentialing and approved by the California Board of Registered Nursing for baccalaureate and entry level master programs in registered nursing.

The University also holds memberships in the Association of Independent California Colleges and Universities, the International Association of Baptist Colleges and Universities, and the Council for Christian Colleges & Universities.

Graduates of California Baptist University are earning advanced degrees in leading colleges, universities, and seminaries of the United States. All women graduates are eligible for membership in the American Association of University Women. Accreditation letters may be viewed in the Office of the Provost.

[1] Articles of Incorporation of The California Baptist College, 1954.

* Western Association of Schools & Colleges Senior College and University Commission

Senior College & University Commission
985 Atlantic Avenue, Suite 100
Alameda, CA 94501

Phone: 510.748.9001
Fax: 510.748.9797
Web Site: www.wascsenior.org

Associate Degree Requirements for Traditional Programs

Traditional Program
General Education Requirements
Associate Degree

Competency Requirements	**0-7 Units**
Composition (ENG 113 or 113E)	0-4
Mathematics (MAT 115, MAT 123, or SAT II Math 1C score of 550)	0-3
Core Curriculum	**22-23 Units**
Behavioral Science	3
ENG 123 or 123E	3-4
Communication Arts	3
Art or Music	3
History, Philosophy, Political Science	3
Lab Science	4
Christian Studies	3
Total General Education	**22-30 Units**

- Courses may not double count for core curriculum categories, but they may be applied to a major, minor or concentration as well as the core curriculum
- Students are required to enroll in the composition requirements until successfully completed.

Graduation Check List

- Complete at least 60 semester units of credit
- Complete at least 30 units in residence at CBU
- Earn a cumulative grade point average of at least 2.0 overall with no grade below C- in the major field of study
- Complete all general education requirements
- Complete all coursework in a major as selected from the University Catalog
- Complete a graduation application for planned graduation date
- Satisfy all financial obligations
- Be in good academic standing (not suspended or academically disqualified) at the time of completion

Bachelor Degree Requirements for Traditional Programs

Traditional Program
General Education Requirements
Bachelor Degree

Competency Requirements	**0-16 Units**
Composition (ENG 113 or 113E)	0-4
Mathematics (MAT 115, MAT 123, or SAT II Math 1C score of 550)	0-3
Technology coursework or approved high school technology course	0-3
Two semesters of the same college level foreign language or two years of the same high school foreign language with grades of B- or higher or SAT II Foreign Language score of 600	0-6
Foundations	**7-8 Units**
Intermediate Composition (ENG 123 or 123E)	3-4
Lab Science	4
Biblical and Theological Core	**9 Units**
Christian Studies	6
ISP/Christian Studies	3
Natural World (no more than 4 units in one area)	**6 Units**
Natural Worldview (WLD 121)	3
Biological Science	3
Chemical Sciences	3
Health Science	3
Kinesiology	3
Mathematics	3
Physical Science	3
Social World (no more than 3 units in one area)	**6 Units**
Social Worldview (WLD 141)	3
Communication Studies	3
Behavioral Science	3
Political World (no more than 3 units in one area)	**6 Units**

Political Worldview (WLD 161)	3
Political Science	3
History	3
Cultural World (no more than 3 units in one area)	**6 Units**
Cultural Worldview (WLD 181)	3
Art or Music	3
English and Literature	3
Philosophy	3
Total General Education Units	**40-57**

- Courses may not double count in the general education, but may be applied to a major, minor or concentration
- Students are required to enroll in the composition requirements until successfully completed.
- General education requirements are waived, with the exception of the Biblical and Theological Core (CST) and two semesters of English composition (ENG 113 or 113E, and ENG 123 or 123E) for individuals transferring to CBU with a CSU General Education Breadth or IGETC certified associate's degree

Bachelor Degree Requirements for Online and Professional Studies

Online and Professional Studies
General Education Requirements
Bachelor Degree

Foundations	**12-15 Units**
Composition (ENG 113, ENG 123)	6
Mathematics (MAT 115, MAT 123, or higher)	3
Technology coursework or approved high school technology course	0-3
Philosophy	3
Behavioral Science	**6 Units**
Anthropology	
Christian Behavioral Science	
Leadership	
Psychology	
Social Work	
Sociology	
Biblical and Theological	**6 Units**
Overview of the Bible (CST 100)	3
Upper Division Christian Studies	3
Communication and Fine Arts	**6 Units**
Art	
Communication Arts	
Foreign Language	
Graphic Design	
Journalism	
Music	
Public Relations	
Theatre	
Humanities	**6 Units**
History	

Humanities

Literature and Writing (higher than ENG 123)

Political Science

Natural Sciences **4 Units**

Lab Science (required)

Health Science

Kinesiology

Science

Total General Education **Units 40-45**

- Courses may not double count in the general education, but may be applied to a major, minor or concentration
- Students are required to enroll in the technology and composition requirements until successfully completed.
- General education requirements are waived, with the exception of the Biblical and Theological Core (CST) and two semesters of English composition (ENG 113, ENG 123) for individuals transferring to CBU with a CSU General Education Breadth or IGETC certified associate's degree

Enrollment and Student Services

Mr. Kent Dacus
Vice President for Enrollment and Student Services

Mr. Anthony Lammons
Dean of Students

Ms. Celeste Wilcox
Administrative Assistant
Phone (951) 343-4687
FAX (951) 343-4576

Philosophy of Student Development

As a Christian institution, California Baptist University has dual responsibilities to its constituency. As an academic institution, it seeks to promote high scholastic standards, stimulate mental alertness, impart a general knowledge of the natural world and of the history and institutions of human society, and to assist students in choosing and learning an area of specialization for their life's work.

As a Christian institution, the University seeks to promote and follow the spiritual principles set forth by Jesus Christ. In acknowledging these principles, the University places special emphasis on leading students in an active pursuit of the spiritual values of life and developing leaders for the Southern Baptist churches of California and beyond.

Students at CBU are individuals involved in academic pursuits and at the same time are members of a Christian community nurturing one another in spiritual growth. The University expects students to take seriously this two-fold responsibility.

The Student Services Division is committed to the intellectual, spiritual, social, aesthetic, and physical development of California Baptist University students so that they are assisted in becoming autonomous, competent, responsible, and interdependent individuals who use their intellects and skills with wisdom and integrity.

Freedom and Responsibility

California Baptist University students are entitled to the same freedom as any other citizen of our country. It is the Policy of the University to ensure these rights, consistent with the provisions of law, acceptable tastes, and purposes and goals of the institution. When matriculation in the University requires that conditions be placed upon Student freedoms, these conditions and their rationale are clearly delineated.

At California Baptist University, the concepts of freedom and personal responsibility are inextricably bound together. The University community, like any other, functions upon the principle that all members respect and protect the rights of their fellow citizens. Students are encouraged to develop these values which represent mature, self-disciplined people who appreciate the privilege of education and are willing to accept its responsibilities.

When people choose a college, they commit themselves to its philosophy of education, policies, and regulations. Students are to demonstrate proper respect of University personnel which includes, but is not limited to, compliance with directives of University officials in the performance of their duties.

Even though students may not agree with a few rules established by the University, it is expected that they comply with them in a manner conducive to the highest moral standards and in keeping with the discipline of the academic community.

Generally, through appropriate procedures, institutional judicial measures shall be imposed for conduct which adversely affects the institution's pursuit of its educational objectives, which violates or shows a disregard for the rights of other members of the academic community, or which endangers property or persons on institution or institution-controlled property.

Responsibility for enforcement of Student Conduct Policy lies with the Dean of Students, Director of Student Conduct, and other Student Services staff. This group defines behavioral expectations and takes appropriate action in support of University Policy.

Standard of Student Conduct

In order to achieve its mission, California Baptist University expects members of the campus community to accept responsibility for their personal conduct and to encourage others within the community to do the same.

All students enrolled at California Baptist University are expected to conduct themselves in accordance with the Standard of Student Conduct, regardless of age, classification, or the number of credit hours being taken. The Standard of Student Conduct is established for the purpose of outlining expected behavior of students in the University community. The Standard of Student Conduct shall be defined as any and all policy, procedure, and/or behavioral expectation contained within the Student Handbook and the University Catalog.

If the conduct of any member of the campus community is found to be detrimental to the academic, social, and spiritual development of others within the community, the University (through its various offices and personnel) provides guidance, direction, and if necessary, judicial action.

This Standard of Student Conduct shall apply to any and all lands owned or leased by the University, as well as, to any location where a student is engaged in a University activity. Examples of such coverage include, but are not limited to, athletic teams and performing arts groups traveling to and participating in events off campus, student teaching and observation/participation, student government, recognized organizations and clubs engaging in a club event or activity, off-campus internships, international internships, international student teaching, academic extracurricular travel, faculty-led academic engagement and service-learning, clinicals/health fairs, student field practicums, student independent or directed studies, student research, community service, study abroad, International Service Projects, United States Service Projects, and Summer of Service Projects.

Students should understand the commitment to the spirit of the University and realize that their enrollment is viewed as a willingness to abide by and accept the responsibilities of the environment.

Philosophy of Discipline

The purpose of discipline at California Baptist University is to assist in maintaining individual and community growth. Personal growth and maturity are encouraged most when each member of the University community uses self-discipline and shares the responsibility to care enough about others to confront them when appropriate. The responsibility to confront one another in a loving manner should enable inappropriate behavior to be corrected on a personal level.

Unfortunately, situations may arise which warrant a formalized judicial process. Judicial procedures are designed to provide a just and equitable process of educational discipline. While every effort is made to protect the rights of students, the University does not attempt to duplicate or to emulate court proceedings and should not be viewed as such. Student judicial procedures, student rights, and the appeal process are outlined in detail in the Student Handbook.

Enrollment and Student Services Division

The Enrollment and Student Services Division encompasses the offices of Academic Advising, Career Center, Community Life, Counseling Center, Enrollment Services, Intercollegiate Athletics, Student Care, Provider Food Service, Residence Life and Housing Services, Safety Services, Spiritual Life, Student Government, Wellness Center, Title IX, and University Card Services. In addition to providing general supervision of the offices that comprise the Student Services division, the Student Services Office provides services that include, but are not limited to, the following:

- Administrating student health insurance provided through the University and accepting proof of insurance (as required by University policy)
- Referring students to campus resources

- Facilitating the judicial action and non-judicial action appeals processes
- Investigating student allegations and complaints
- Reviewing and approving on-campus postings (flyers, posters, etc.)
- Serving as the primary point of notification when students are involved in situations that require an extended absence from campus
- Coordinating commencement events
- Any issue dealing with food services
- Title IX Office

Academic Advising

The Office of Academic Advising assists students with course registration, degree planning, graduation checks, program changes and various academic appeals. Academic Advising works in cooperation with academic departments and other student support offices to ensure the best possible assistance is provided to students navigating their programs of study. Advisors are available by appointment, walk-in, chat, email, or phone.

Activities

In addition to maintaining the University's activity calendar, serving as an activity-planning resource, and assisting with the oversight of student clubs and organizations, the Community Life Office plans and implements campus activities, intramural sports, educational programs, cultural programs, and seminars that reflect the Christian values of the institution.

Associated Student Government

The Associated Students of California Baptist University (ASCBU) is committed to the development of the student body through the representation of student needs and concerns to the University administration and a variety of student programs.

The ASCBU organization consists of a three-branched government; the executive, legislative, and judicial. The Executive Council, Senate (Class, Residential, and Commuter Representatives), and Judicial Board perform duties for each branch, respectively. Specific responsibilities of each branch are outlined in the ASCBU Constitution.

Campus Housing

The Residence Life Office strives to promote the mission of California Baptist University by providing an on-campus living environment that is conducive to scholarship, personal growth, and development. Accordingly, living in residence at CBU carries with it a distinctive set of privileges and responsibilities. Students who reside on campus live in a community with their peers and are entrusted with the responsibility to challenge and support each other in a respectful, cooperative, and communicative fashion. This environment provides students with enriching experiences, which may help to promote healthy interpersonal relationships.

Students interested in campus housing should consult the Office of Residence Life.

Career Center and Student Employment

The Career Center serves as a connection between education and career by providing students opportunities and resources for professional development, networking, and experience. The goal of the Career Center staff is to equip students with the professionalism necessary to excel in their respective careers and become effective servant-leaders for Christ upon graduation, both locally and globally.

The Career Center provides students with varied opportunities for professional development and career exploration through programing that is both campus-wide and major specific. Career Center staff conducts classroom presentations, workshops, seminars, and provides office walk-in hours to assist and instruct students in their professional

development. In addition, the Career Center arranges opportunities for students to interact and network with potential employers through career fairs and employer presentations.

Clubs and Organizations

Clubs play an important role on the California Baptist University campus by encouraging students to pursue interests, develop leadership skills, create meaningful relationships, and enhance academic achievements. A list of chartered clubs and organizations as well as club and organization policy and procedures are available in the Community Life Office and on InsideCBU.

Intercollegiate Athletics

The Athletic Department provides education for the body, mind, and spirit of each student-athlete at California Baptist University. Under the direction of the athletic director, CBU offers a comprehensive athletic program with staff who address NCAA compliance, communications, development, athletic training, strength and conditioning, sports medicine, academic advising, facilities and event management, marketing and fan engagement, ticketing and sales, and media production. In addition to encouraging Christ-like competition by all participants, CBU coaches diligently strive to educate students and provide an environment in which students experience athletic, academic, and personal success.

Intramural Sports

California Baptist University is committed to the overall educational experience. Intramural sports play an integral part in this experience in the following ways:

- Encourage students to work together in pursuit of individual and team goals;
- Provide students an enjoyable way to interact with others;
- Offer students avenues to relieve stress or anxiety;
- Help students begin an attitude of lifelong physical fitness.

The University's intramural sports program maintains a full schedule of athletic and recreational activities throughout the academic year. Activities include a variety of seasonal competitions between organized teams, tournaments, individual competitions, and non-athletic events.

Office of Student Care

In addition to coordinating campus-based resources and support for Students who experience difficulties (e.g. extended hospitalization, personal crisis, loss of an immediate family member, etc.) that significantly impact the ability to navigate college life or continue enrollment in courses, Office of Student Care provides leadership for the Associated Student Government, First-Year Experience, Student Leadership, Transfer Student Program, and a variety of other campus-based programs and initiatives.

FYE (First Year Experience)

First Year Experience is designed to assist new Students with the transition to university life and the California Baptist University community through a University Success course. This course is required of all unmarried, full-time undergraduate Students who are first-semester freshmen and under twenty (20) years of age. Students who have completed a similar course and/or completed a full semester of transferable coursework at another institution are not required to enroll in the FYE course.

Recreation Center

The Recreation Center, is a state-of-the-art fitness and recreation facility. The Recreation Center offers members of the campus community a wide range of personal fitness and group exercise opportunities. This facility is equipped with a number of recreation features including a state-of-the-art cardio and weight room, racquetball courts, a gymnasium

with basketball and volleyball courts, group exercise rooms, a rooftop track and soccer field, men's and women's locker rooms, and lounge spaces located throughout the facility.

Safety Services

California Baptist University maintains a Department of Safety Services to enhance the safety and security of the campus community. In addition to staffing the Welcome Pavilion and patrolling school properties, the department provides twenty-four (24) hour assistance with emergencies, crime and injury reporting, safety escorts, and education of the campus community on safety and security practices.

Community and Emergency Notification

The University has developed a multimedia system to immediately notify students, faculty, staff, and visitors of any emergency circumstance or serious situation that poses a credible threat to the safety and security of the campus community. Components of this system include:

- A siren/verbal warning system capable of projecting audible messages across open areas of the main campus.
- CBU Alert--an "opt-in" system capable of transmitting and delivering messages to all subscribed email and cellular telephone addresses on file with the University.*
- All University-issued email addresses.**

*Students must "opt-in" to receive these messages.
**Parents or guardians of students enrolled at CBU may also be added through the student's account.

Any or all parts of this system may be activated in response to any specific incident.

For instances when there is no immediate threat to the safety of the campus community but it is desirable to provide information for educational or crime prevention purposes, email distribution is used to disseminate relevant facts and measures to be implemented or considered.

Vehicle Registration

Students who operate a vehicle on campus must register for a parking permit with the Safety Services Department. Parking permits are issued for the current school year. Drivers are expected to comply with the University traffic and safety regulations and non-compliance may result in the issuance of a citation and/or suspension of parking and/or driving privileges on campus. Copies of the California Baptist University Vehicle Code are available in the Student Handbook.

International Student Services

The Office of International Student Services (ISS) assists international students in transitioning into the CBU community, exploring American culture, and understanding U.S. immigration regulations. ISS ensures that students understand institutional expectations, provides support services, processes immigration documents, plans and implements activities that promote campus awareness and appreciation for cultural understanding and experience, and assists students in becoming integrated into the CBU community.

Spiritual Life

California Baptist University is committed to the biblical teaching of the Christian faith. As a result, the University has sought since inception to evidence the values of Christian living in the lives of students, staff, and faculty as they live out the Christian ethics of love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control. Though students are not required to be Christians, the University encourages students to grow in their relationships with God by exploring the gospel and expressing the Christian faith in a variety of ways.

As a University committed to the Great Commission, the University provides opportunities for spiritual growth and formation through the Office of Spiritual Life. The purpose of the Office of Spiritual Life is "Investing in lives to develop followers of Jesus."

California Baptist University requires students to take Bible-based courses in Christian studies. However, the University also offers students many opportunities to explore and express the Christian faith. Students are encouraged to participate in ways unique to personal needs and interests through regularly scheduled times of spiritual emphasis, Bible studies, worship gatherings, evangelism, ministry teams, community service, and missions.

Compassion Ministries

By putting faith into action, students learn the significance of demonstrating the love of Christ in the context of the gospel. Participating in urban projects for a day or a weekend, working with the homeless, or serving the local community gives students the opportunity to make a difference in the lives of others in the name of Jesus.

Chapel

The California Baptist University community gathers regularly for worship, fellowship, Christian growth, and spiritual encouragement. Chapel services vary from Bible preaching to inspirational sharing; but three (3) principles guide the worship-planning process. First, Chapel services will demonstrate a richness of biblical theology to direct the hearts and minds of worshipers to the glory of God, the preeminence of Christ, and the power of the gospel. Second, Chapel programming and personnel will represent the cultural and ethnic differences of the CBU community to serve as a reminder that God calls all people groups to worship Him through a relationship with Christ. Third, worship music will be stylistically diverse to accommodate the variety of worship styles represented by the campus community.

Chapel services are organized, coordinated, and implemented by the Dean of Spiritual Life and the Director of Chapel. Occasionally, as deemed appropriate by a University Officer, members of the campus community are recognized for notable accomplishments during Chapel. Holidays, cultural programs, and other forms of recognition and/or expression are not included as part of Chapel programming; such events may be coordinated through the Community Life Office.

Discipleship Ministries

Students of California Baptist University have opportunities to grow in their relationships with Christ through discipleship and mentoring in the context of weekly small groups, regular large-group meetings, regularly-scheduled conferences, and other events that encourage spiritual growth. The primary discipleship structure is Challenge, an intentional discipleship process based in small groups called "Tribes."

Men's and Women's Ministries

Special all-male or all-female events provide environments that foster community for students to grow in their relationships with Christ and each other. Events are gospel-centered and planned around shared interests, strengths, experiences, and struggles. Ministry events provide opportunities for students to hear guest speakers, participate in small-group discussion, learn about gospel-centered resources, and be involved in ongoing discipleship.

Third Culture Kid (TCK) Ministry

At CBU, TCKs are American students who spent most or all of their developmental years outside of the United States. Although they are Americans by birth, they often do not feel connected to American/Californian culture or the culture of the American University. The TCK Ministry comes alongside and supports TCKs to assist them in bridging cultural gaps they encounter during their time at CBU so that they can grow socially, spiritually, and academically.

Mobilization

In cooperation with the International Mission Board of the Southern Baptist Convention and various missions organizations, International Service Projects (ISP) create opportunities for students to participate in the "Great Commission" (Matthew 28:19-20) so that they might gain a global vision for the cause of the gospel as well as cross-cultural experience through service learning. ISP teams have served in more than fifty (50) countries since 1997. Participation in ISP is open to California Baptist University students who meet membership requirements, successfully complete the application and interview process, fulfill fundraising obligations, and are in good academic and behavioral standing with the University. The service-learning application and selection process is coordinated by the Mobilization area of the Office of Spiritual Life and takes place during the fall semester.

Engagement. Teams of California Baptist University students serve internationally for approximately three (3) weeks during the summer months. Each team is led by a University official or other approved member of the University community. The ministry focus may vary depending upon the outreach strategy of the selected area.

Immersion. Teams of California Baptist University students serve internationally for approximately eight (8) weeks during the summer months. Ministry focus varies depending on the outreach strategy of the selected area(s). Summer of Service was established in 2010, and in 2017 was rebranded to Immersion.

Encounter. Teams of California Baptist University students serve internationally for approximately two (2) weeks during the summer months. Each team is led by a University official or other approved member of the University community. Encounter was launched in 2018. The projects differ depending upon the service opportunities of the selected area.

Student Health Insurance

California Baptist University contracts with UnitedHeathcare Student Resources to provide student healthcare insurance. Requirements, eligibility, and cost related to student health insurance are determined by student enrollment status.

International students are required to enroll in the student insurance plan.

Traditional undergraduate students enrolled for seven or more units are automatically charged for medical insurance provided by the University - unless proof of medical insurance is submitted through the online waiver accessed at www.calbaptist.edu/healthinsurance. Proof of insurance must be submitted prior to the "last day to drop a class with refund" as indicated in the University Calendar, during the first semester of attendance of each academic year. Students who do not submit proof of medical insurance by the deadline will be enrolled in the plan. Once a student is enrolled, the charge is non-refundable. Students enrolled in less than seven units are not eligible to enroll in the plan.

Dependent Coverage for spouse and children of students enrolled on the plan is available for an additional cost. Questions about student health insurance can be directed to the University Card Services Office.

Information regarding the student health insurance plan provided by CBU may be accessed at www.calbaptist.edu/healthinsurance. Students who have questions regarding the student health insurance plan, after reviewing the information provided online, are encouraged to contact the University Card Services Office for assistance.

Wellness Center

The California Baptist University Wellness Center, located at 3626 Monroe Street, houses the CBU Health Center and the CBU Counseling Center. The goal of the Wellness Center staff is to provide effective health, wellness, and counseling services that promote academic and personal success.

Student Health Center

The Health Center is available to all members of the campus community. To help maintain a healthy campus environment, students are encouraged to visit the student health center at the onset of illness symptoms and other health-related concerns. Health Center staff can address most conditions that are treated in an urgent care facility.

The Health Center is operated in cooperation with Riverside Medical Clinic that provides staffing and insurance billing services. In addition to accepting student health insurance (UnitedHealthcare Student Resources) provided through California Baptist University, most PPO insurances and HMO insurances (that name Riverside Medical Clinic as their primary medical group) are accepted at the Health Center. Kaiser Permanente Health Plans are not accepted at the Student Health Center. The Health Center has reasonable walk-in rates for all CBU community members beginning at $23. For students, faculty, and staff needing ongoing care and prescriptions for pre-existing conditions, it is recommended they visit their primary care physician.

For days and hours of operation, please see The Health Center for current information.

Call 951.321.6520 to schedule an appointment. Appointments are required for all routine well- and/or preventative-services visits. Walk-ins are welcome.

Counseling Center

The Counseling Center offers a full range of counseling assistance as members of the campus community strive to become more effective, productive, and comfortable with University life. The primary mission of the Counseling Center is to provide professionally competent and personally compassionate care for students, faculty and staff. The goal of the Counseling Center is to provide services with a Christ-centered approach and biblically-focused world view.

Counseling is provided by well-trained Marriage Family Therapist interns and associates. All counseling is provided under the professional supervision of fully licensed therapists. Issues that can be addressed with a counselor include, but are not limited to:

Addiction/Substance Abuse	Family Conflict
Anger	Grief
Anxiety	Identity/Self-Image
Depression	Life Transitions
Divorce	Relational

Counseling is completely confidential except where limited by law. These limitations include any plan to harm others or self along with issues of child and/or elder abuse.

The Counseling Center is available to students, faculty, staff, and immediate family members (spouses and dependents under the age of 19). Typically, appointments will be scheduled within one (1) week of initial contact. Walk-in appointments are available for urgent situations. Call 951.689.1120 to schedule an appointment.

Traditional On-Campus Admissions

Mr. Taylor Neece
Dean of Admissions

Director of Undergraduate Admissions
8432 Magnolia Avenue
Riverside, CA 92504
Phone 951.343.4212
Toll Free 877.228.8866
FAX 951.343.4525

Admission to the Traditional On-Campus Program

When to Apply

The University implements a rolling admissions practice. A high school senior or a college transfer student may apply any time before the beginning of each semester. Prospective students are encouraged to complete the application process at least four weeks prior to the start of their intended semester of enrollment. Completing the application process early will permit other offices on campus such as Financial Aid, Residents Life, and Academic Advising to communicate with the prospective student in a timely manner.

Application Procedures

To be considered for admission students are required to submit the following documents:

- A completed Application for Admission.
- A $45.00 non-refundable fee.
- Official high school transcripts sent directly to the Office of Undergraduate Admissions from your high school.
- Official transcripts from all previously attended colleges and universities.
- The Scholastic Aptitude Test I (SAT), American College Test (ACT) or Classical Learning Test (CLT). (This requirement does not apply for prospective transfer students who have or will have at least 24 transferable units from an accredited college or university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation)

When an applicant has submitted all the required documents, an evaluation will take place and a decision rendered.

Admission Guidelines

First-time Freshmen

Students who have completed less than 24 units of transferable college credit must complete the Admission Requirements for First-time Freshmen. Status will be evaluated on high school transcripts, SAT, ACT or CLT scores, and college transcripts, if applicable. Students will be admitted with one of the following academic standings and may take up to 18 credit units their first semester.

Honors

Honors classification will be granted to those applicants who meet the criteria for the Trustee's, President's or Dean's merit scholarships.

Standard

Standard classification will be granted to those applicants with a minimum GPA of 2.5 who are not eligible for the Trustee's, President's or Dean's merit scholarships.

Provisional

Provisional classification may be granted to those applicants who do not meet the Standard entrance requirements but are approved by the Admissions and Retention Committee. Students admitted on Provisional status may be required to enroll in the Student Success Class.

Denial

Denial may occur when an applicant does not qualify for admission in the above categories. California Baptist University also reserves the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

Appeals

Appeals on any decision regarding admission should be made in writing and addressed to the Admission and Retention Committee in care of the University. All appeals will be heard by the Committee. The appeals may include a personal interview and additional academic transcripts. Once the appeal is reviewed, the Committee will render a final decision.

The Admissions and Retention Committee will review students who do not meet the requirements for Standard admission. Upon review of the student's file, one of the following decisions will be rendered: Standard Admission, Provisional Admission, or Denial.

Transfer Students

Students who graduated high school at least one year ago and have, or will have, completed 24 or more transferable units from an accredited college or university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation will be evaluated on the basis of their official college transcripts. It is highly recommended that transfer students submit their high school transcript to aid in placement and the meeting of competency requirements. Students may be admitted with one of the following academic standings and may take up to 18 credit units their first semester:

Honors

Honors at entrance may be granted to those applicants with a minimum cumulative GPA of 3.0 for all transferable college work.

Standard

Standard entrance may be granted to those applicants with a minimum cumulative GPA of 2.0 for all college work.

Provisional

Provisional entrance may be granted to those applicants who do not meet the Standard entrance requirements but may be approved by the Admissions and Retention Committee. Students admitted on Provisional status may be required to enroll in Academic Success Seminar (GST 060).

Denial

Denial may occur when an applicant does not qualify for admission in the above categories. A college transfer student may be denied admission if he or she is on academic suspension or dismissal from another college. California Baptist

University also reserves the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

Appeals

Appeals on any decision regarding admission should be made in writing and addressed to the Admission and Retention Committee in care of the University. All appeals will be heard by the Committee. The appeal may include a personal interview and additional academic transcripts. Once reviewed the Committee will render a final decision.

The Admissions and Retention Committee may review students who do not meet the requirements for Standard admissions. Upon review of the student's file one of the following decisions will be rendered: Standard Admission, Provisional Admission, or Denial.

Home Educated Students

California Baptist University welcomes applications from home educated/schooled students. Home educated/schooled students are subject to the same admissions requirements as public or private high school students, which are listed under the Application Procedures section. A General Education Diploma (GED) or State Proficiency Exam may be submitted in lieu of high school transcript if none is available. Students with a verifiable cumulative Grade Point Average (GPA) are eligible to qualify for all merit scholarships.

Readmit

Students who have attended California Baptist University but have discontinued enrollment for one or more semesters must be approved to readmit to the University. Students must submit an Application to Readmit form, pay the required Readmit application fee and provide all official transcripts from all other institutions attended since last enrolled at California Baptist University. Additional documents or an interview may be required to readmit. Required department clearances must be obtained prior to the start of the semester the student is seeking to readmit.

Students whose applications for readmission are approved will enter under the catalog current at the time of readmission and will be subject to the admissions and degree requirements outlined in that catalog. The University is not responsible for providing courses or programs that have been discontinued.

Conditional Accepted Student

A conditional accepted student is defined as a traditional undergraduate student who is working toward a degree at California Baptist University. Students offered a Conditional Acceptance may be eligible to enroll in no more than nine (9) units but not less than six (6) units for one semester. This status applies to the first semester at the University only. Upon successful completion of the "conditional" semester the student may continue enrollment as a traditional student. Successful completion is defined as a minimum GPA of 2.0 with no D's or F's in any of the classes taken as a conditional student.

Special Students

A Special Student is defined as a student who is not working toward a degree at California Baptist University. Students offered Special Student status are eligible to enroll for up to 30 semester units. To continue beyond 30 units the student must meet admission requirements for Standard status.

Application Procedure

To be considered for admission, Special Students are required to submit the following documents:

- A completed Special Student Application for Admission
- A $45.00 non-refundable fee

Special Students who later decide to have their units apply toward a degree at California Baptist University must formally make application for traditional student standing with the Office of Undergraduate Admissions. When an applicant has submitted all the required documents, an evaluation will be made, and a decision rendered.

Audit Students

An Audit Student is defined as a student who is not taking classes at California Baptist University for credit. For more information on auditing a class please see the Academic Information section of this catalog.

Application Procedure

To be considered for admission, Audit Students are required to submit the following documents:

- A completed Special Student Application for Admission
- A $45.00 non-refundable fee

When an applicant has submitted all the required documents, an evaluation will be made, and a decision rendered.

International Baccalaureate Credit

Students who score four (4) or higher on a higher level (HL) International Baccalaureate (IB) exam will receive three units of lower division credit for the equivalent course. For more information on International Baccalaureate please see the Academic Information section of the catalog.

Traditional Admissions

Mr. Taylor Neece
Dean of Admissions

Ms. Alma L. Salazar
Director of Graduate Admissions
Phone: 951.343.4249
Toll Free: 877.228.8877
FAX: 951.552.8700
graduateadmissions@calbaptist.edu

The goal of California Baptist University Graduate Programs is to provide avenues for students to better themselves personally and professionally through practical, ethical, and Christian education. Most programs are structured to accommodate busy schedules, as we acknowledge that most of our students are attempting to balance a graduate education with work, home and family. The Graduate Admissions Office at California Baptist University is available to assist both prospective and current doctoral, master, and credential students.

When to Apply

Please see program-specific requirements for deadlines or priority deadlines. Certain programs will consider and process applications received after the priority deadline if space is available.

Admission and Application

Each program of study has specific admission and application requirements that are listed in the program sections of the catalog. Application requirements common to all graduate programs are as follows:

1. Application
    - Applicants to graduate study at California Baptist University must apply for acceptance into a specific graduate program. Applications can be submitted online at www.calbaptist.edu/apply.
2. Application Fee
    - A non-refundable application processing fee is required.
3. Completion of a Bachelor's Degree
    - A bachelor's degree from an accredited institution recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation or the evaluated equivalency of a bachelor's degree from an accredited institution recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation is required.
4. Official Transcripts
    - Official transcripts from a college or university reflecting completion of a baccalaureate degree. Additional transcripts may be required for prerequisite or GPA verification (see specific program for required prerequisites). An official transcript is one the University receives directly from another institution, electronically or by mail.
5. GPA Requirement
    - Applicants must meet a minimum cumulative or last 60 semester (or 90 quarter) unit grade point average specified by each program.
6. Recommendations
    - Recommendations are required for most programs and are submitted electronically through the online application. Recommendations may not come from family members or friends. Please see specific program requirements for additional recommendation criteria.
7. Essay
    - Most programs require an application essay. Please see specific program admission requirements for essay information.
8. English Language Proficiency

- An applicant whose first language is not English and/or who does not have a degree from an institution where English is the primary language of instruction is required to demonstrate English language proficiency by submitting a recent test score from Test of English as a Foreign Language (TOEFL), Pearson Test of English Academic (PTE Academic), or International English Language Testing System (IELTS). The minimum score required to display English language proficiency for standard admission to a graduate program is 80 IBT TOEFL, 53 PTE Academic, or 6.0 IELTS with no individual area under 5.0. Applicants who do not meet the minimum scores may be admitted to the Intensive English Program (IEP) and a graduate program while taking required language courses to meet the minimum TOEFL/PTE Academic/IELTS requirement.

Student Status

Applicants to the program will be considered according to the following classifications:

Unconditional

Applicants who have met the unconditional status GPA requirement specified by each program, who have completed the required prerequisites, provided Graduate Admissions with the required application, documents, and fees, and have satisfied all other admission criteria, may be unconditionally admitted to the University with full graduate standing.

Conditional

Applicants who show a deficiency in any requirements may be admitted on a conditional basis.

Special

As an alternative to regular admission, an applicant may be considered for admission with permission from the program director under Special Student Status. Special Students may enroll in no more than a total of six (6) graduate units. To continue beyond six units, students must complete program application requirements and be accepted to a specific graduate program. Enrollment as a Special Student does not guarantee or imply later admission to the graduate program; however, credit for the courses may be counted toward graduation requirements following admission to the graduate program. Certain courses may have restrictions and/or prerequisite requirements.

Note: Special Students are not eligible for Financial Aid.

Denial

Denial may occur when an applicant does not qualify for admission based on any one of the above categories. California Baptist University reserves the right to deny admission to any applicant who is antagonistic with the philosophy and purpose of the University.

Appeals

Appeals on any decision regarding admission should be made in writing and addressed to the Admission and Retention Committee in care of the University.

California Baptist University Applicants

A current undergraduate California Baptist University student who has been accepted to a graduate program may be allowed to enroll in a graduate program pending the posting of their bachelor's degree. The degree must be posted by the last day to drop for the semester or the graduate enrollment will be voided. The student is responsible for determining how this will affect their academic record, tuition, and eligibility for financial aid.

Readmit

Students who have attended California Baptist University but have discontinued enrollment for one or more semesters must be approved to readmit to the University. Students must submit an electronic Application to Readmit, pay the required Readmit application fee and provide all official transcripts from all other institutions attended since last enrolled at California Baptist University. Additional documents may be required, as well as an interview with the director of the program for which the student is seeking to readmit.

Students whose applications are approved will enter under the catalog current at the time of readmission and will be subject to the admissions and degree requirements outlined in that catalog. The University is not responsible for providing courses or programs that have been discontinued. For more information contact the Admissions Office.

Change of Degree Program

Admission to graduate studies at California Baptist University is degree specific. Students wishing to change degree programs must apply for the desired program. No credit toward the new degree will be granted until admission to the new program has been approved.

Enrollment in Coursework Outside Approved Program

With permission from the Program Director, students may be permitted to enroll in up to six (6) units of coursework outside of their program. To continue beyond six units the student must complete program admission requirements and be accepted to the graduate program. Enrollment in the six units does not guarantee or imply later admission, but credit for the course may be counted toward graduation requirements following admission to the graduate program.

Note: Students taking coursework outside their approved program are not eligible for Financial Aid.

International Admissions

Mr. Bryan Davis
Dean of International Programs

Mr. Joseph Gemignani
Assistant Director of International Admissions
Phone 951.343.4690
FAX 951.343.4728
internationaladmissions@calbaptist.edu

International Undergraduate Admissions

Authorization

California Baptist University is authorized under Federal law to enroll non-immigrant alien students.

When to Apply

Application and the completion of the file for a particular term must be made according to the following deadlines. The closing dates for receiving international student applications and all supporting documentation are earlier than for standard applications due to the additional time needed to process documents through SEVIS.

Session	Deadline
Fall Semester	July 1
Spring Semester	November 1

Once all admission requirements have been met and the applicant is approved for admission, a letter of acceptance and the form I-20 will be issued. All international student athletes are subject to additional criteria as outlined in CBU's International Student Athlete I-20 Policy.

Application Procedure

To be considered for admission, international students must submit the following:

1. A completed International Student Application for Admission
2. A $45.00 non-refundable fee
3. Official transcripts
    - Official sealed copies of all academic records (including transcripts, mark sheets and grade reports, as well as graduation certificates, diplomas and/or completion certificates) from secondary schools, showing dates of attendance, courses taken, and grades received. Transfer applicants are required to submit all official college transcripts from all colleges/universities attended and accompanying documentation, as well. All records must be accompanied by a certified English translation. Transcripts must be sent directly from the educational institution to CBU. Transcripts received by CBU from a third party (including the applicant) are unofficial and cannot be used for an application file.
4. Essay or Personal Statement
    - Submit a personal statement (minimum 3-5 paragraphs) responding to the following question: "What do you hope to gain from your experience as a student at California Baptist University?" Give examples from an academic, social, and spiritual standpoint.

Financial Documentation

International students must submit the Sponsor's Commitment of Financial Support form, provided by California Baptist University, accompanied by a certified bank statement or affidavit of support indicating sufficient funds for study. Financial support must guarantee and certify funds equal to a minimum of one year of the student's academic study at CBU. Note: International students must pay semester charges in full before registration can be completed.

Language Proficiency

Students applying from non-English speaking countries must demonstrate English proficiency in order to ensure a successful experience at California Baptist University. English proficiency may be demonstrated in one of the following six ways:

1. A minimum score of 71 on the Internet Based (IBT) Test of English as a Foreign Language (TOEFL) or 527 on the Paper Based Test (PBT)
2. A minimum score of 430 on the verbal section of the Scholastic Aptitude Test (SAT)
3. A minimum score of 16 on the English section of the American College Testing Program (ACT)
4. A minimum score of 5.5 on the International English Language Testing System (IELTS)
5. A minimum score of 48 on the Pearson Test of English Academic (PTE Academic)
6. A minimum score of 105 on the Duolingo English Test (DET) with additional verification
7. Satisfactory completion (2.0 on a 4.0 scale) of twenty-four or more transferable semester college units, including the equivalent of English 113 (English Composition), in a college or university where English is the primary language of instruction

Students who do not meet one of the above English proficiency standards will receive joint admission to the traditional undergraduate and Intensive English Program (IEP).

Admissions Status

Standard

Standard entrance may be granted to those applicants with a minimum GPA of 2.5 and a TOEFL of 71 IBT. Students admitted under Standard status may take up to 15 units their first semester.

Joint

Joint entrance may be granted to those applicants with a minimum GPA of 2.5 but who do not meet the minimum language proficiency requirement; students will be granted admission to the Intensive English Program and the traditional undergraduate program. After completion of the Intensive English Program, students admitted under Joint status may take up to 12 units in their first semester of the traditional undergraduate program.

Denial

Denial may occur when an applicant does not qualify for admission in the above categories. California Baptist University also reserves the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

Intensive English Program (IEP)

The Intensive English Program (IEP) is a full-time, pre-academic and bridge program which fosters cross-cultural exchange by providing English as a Second Language (ESL) instruction to non-English speaking students in preparation for study at CBU. ESL takes place in a classroom setting, collaborating with International Student Services (ISS) on co-curricular activities outside of the classroom.

Further information on the IEP course progression and ESL courses can be located in the Academic Programs section of this catalog.

Online and Professional Studies Admissions

Mr. Merritt Robinson
Dean of Enrollment Services

Ms. Elizabeth Romo
Administrative Assistant
10370 Hemet Street, Suite 100
Riverside, CA 92503
Phone 951.343.3927
Toll Free 877.236.1617
FAX 951.358.1181
cbuonline@calbaptist.edu

The Division of Online and Professional Studies was established for the specific purpose of serving the needs of an increasing number of adult and non-traditional students seeking higher education. Online and Professional Studies (OPS) develops degree programs in a fully online format at both the undergraduate, graduate, and doctorate levels. All programs incorporate a Christian perspective. The OPS programs are designed and delivered in a year-round semester format to accelerate students toward graduation.

Location

Tyler Plaza Administrative Offices
10370 Hemet Street, Suite 200
Riverside, CA 92503
Phone 951.343.3900
Toll Free 877.236.1617
FAX 951.358.1181

When to Apply

The University implements a rolling admissions practice. Prospective students are encouraged to complete the application process at least four weeks prior to the start of their intended session. Online and Professional Studies offers two eight-week sessions every semester, providing six admission start dates per year.

Application Procedures

To be considered for admission students are required to submit the following documents:

- A completed Application for Admission submitted online at https://www.cbuonline.edu/apply.
- Official transcripts from previously attended colleges and universities, submitted to OPS Admissions.
  *An official high school transcript or the equivalent is required for applicants with fewer than twenty-four (24) completed units.

Student Status

Applicants to Online and Professional Studies will be considered according to the following classifications:

Standard

Applicants who submit official high school transcripts showing a minimum cumulative grade point average of 2.5 and (if applicable) official college or university transcripts showing a minimum cumulative grade point average of 2.0 (based on a 4.0 scale).

Conditional

Applicants who met standard admission requirement but are missing official transcripts or other documentation may be admitted on a conditional basis.

Provisional

Applicants who do not meet standard entrance requirements may be granted provisional admission under conditions set by the Online and Professional Studies Admissions and Retention Committee.

Special Student

Applicants offered Special Student status are eligible to enroll for up to 6 units per session. To continue beyond a total of 18 units the student must meet regular admission requirements. (NOTE: Special Students are not eligible for financial aid.)

Denial

Denial may occur when an applicant does not meet the qualifications for admission as stated in the categories above. California Baptist University and Online and Professional Studies Division reserve the right to deny admission to applicants who are antagonistic with the philosophy and purpose of the University.

Appeals

Appeals on any decision regarding admission should be made in writing and addressed to the Online and Professional Studies Admission and Retention Committee in care of the University.

Readmit

Students who have attended California Baptist University but have for any reason discontinued enrollment for one or more semesters will be required to submit a Readmit Application and official copies of transcripts from all other institutions attended. Readmitted students who discontinued enrollment for more than one semester will enter under the catalog current at the time of re-admission and will be subject to the admissions and degree requirements outlined in that catalog. The University is not responsible for providing courses or programs which have been discontinued. For more information contact Online and Professional Studies at (951) 343-3927.

Audit Students

An Audit Student is defined as a student who is not taking classes at California Baptist University for credit. For more information on auditing a class, please see the Academic Information section of this catalog.

Financial Aid

Mr. Joshua Morey
Director of Financial Aid
Phone 951.343.4236
Toll Free 877.228.8855
FinAid@calbaptist.edu

The Purpose of Financial Aid

California Baptist University coordinates and provides financial assistance to students who may otherwise be unable to attend for financial reasons. Financial aid at California Baptist University is administered in accordance with federal, state, and institutional policies. Although every effort is made to provide assistance to as many students as possible, it is important students understand they and their family bear the principal responsibility for meeting educational costs. A federal application is used in determining eligibility for various types of financial aid, including federal, state, and institutional programs.

Various scholarships, grants, work programs, and loans are available for eligible students. These forms of financial assistance are categorized as follows: federal programs, state programs, institutional programs, and private scholarships. Specific information on each of these sources of financial aid is available on the Financial Aid section of the California Baptist University website.

Applying for Financial Aid

Students desiring to apply for federal, state, or need-based institutional aid are required to complete a Free Application for Federal Student Aid (FAFSA) each year. This form is available online at studentaid.ed.gov. The Renewal FAFSA can also be done online at studentaid.ed.gov. All applicants are required to create a FSA ID. A FSA ID gives students access to Federal Student Aid's online systems and can serve as one's legal signature.

Completion of the FAFSA will generate a Student Aid Report (SAR) which is sent directly to the student by the federal government. This report provides information regarding the student's Expected Family Contribution (EFC). The Financial Aid Office will receive the FAFSA information electronically provided that the student listed California Baptist University (school code 001125) on the FAFSA. Generally, the amount of financial aid offered is based on the financial need of the student as determined by the results of the FAFSA. Financial need is defined as the difference between the total cost of attending school (tuition, fees, room, board, books, supplies, and other allowable living expenses) and the Expected Family Contribution (EFC) as determined through the Federal Methodology Need Analysis. A student whose EFC exceeds the cost of attendance may still qualify for financial aid.

Requirements for Awarding

Financial aid funds are limited and are offered on a priority basis. Priority for the academic year will be given to students who are approved for admission and complete their financial aid file by March 2. A completed financial aid file consists of the following documents:

- Results of the FAFSA.
- If requested by the Financial Aid Office, prior year federal tax forms or transcripts from parents and students may be required. This is accompanied by a verification web form. Verification is processed electronically through the University's Student Forms system on InsideCBU.
- Any additional documents required by federal or state agencies.
- All requested documents must be submitted as soon as possible, but no later than 14 days prior to the close of the term.

To qualify for a financial aid offer, undergraduate students must be enrolled in at least six (6) units of degree applicable coursework for half-time status, at least nine (9) units of degree applicable coursework for three-quarter time status, and at least twelve (12) units of degree applicable coursework for full-time status. If enrolled less than half time, students may still be eligible for a portion of their Federal Pell Grant.

Applicants for the Cal Grant programs must file a FAFSA; new applicants must also submit a GPA verification form no later than the deadline established by the California Student Aid Commission (March 2). New applicants who fail to meet this deadline each year are not eligible to receive a Cal Grant.

Applicants for the Dream Act must complete the Worksheet for California Dream Act by the March 2 deadline. Additional documentation may be required. Please visit www.csac.ca.gov for details.

Students who are approved for admission and have completed their financial aid file after the priority deadline will still be considered for financial aid. However, options for preferred aid programs may be limited. The evaluation of a completed financial aid file will result in a Financial Aid Award Offer for eligible students.

Student Rights and Responsibilities

Financial Aid Offer

The Financial Aid Offer is issued to a student after all requested documents are submitted to the Financial Aid Office. Grants and scholarships will be accepted for the student, with the exception of Cal Grant B and Cal Grant B Access, or unless the Financial Aid Office is notified of the student's decision to decline the aid. Acceptance of loan proceeds must be actively confirmed as outlined in the aid offer instructions before funds will be disbursed to the student's account. Participant scholarship recipients may be required to sign a separate agreement before the scholarship will be disbursed.

Students are required to notify the Financial Aid Office of changes in financial, residency or academic status. Changes of this nature will be reviewed and adjustments may be made to the student's Financial Aid Offer. Changes based on marital status may be allowed up to the first day of the academic year.

Students have the opportunity to have their financial aid decision reviewed and explained by their Financial Aid Counselor by requesting an appointment.

Disbursement

Generally, a student's total financial aid offer is divided equally between the Fall and Spring semesters. Federal and state grants, institutional and private scholarships, and student loans will be credited directly to the student's account. Direct loan funds, subsidized and unsubsidized, and Parent PLUS loan disbursements are sent directly to the University.

Seniors attending one semester during their last academic year (graduating early) or attending an additional semester (senior year totaling 3 semesters) are subject by federal regulations to have some sources of Financial Aid prorated based on federally mandated calculations.

Withdrawal from the University

Withdrawal from the University (all classes) during any period of enrollment, whether official or unofficial, may necessitate the return of federal financial aid.

Pursuant to federal regulations (CFR 668.22), a refund calculation will be performed to determine the amount, if any, of Title IV aid (Pell Grant, SEOG, Direct loans, Perkins loans) earned by the student for their attendance up to the date of withdrawal.

The withdrawal process begins with the completion of an official Petition to Withdraw form that is available in the Office of Admissions. Please refer to the Academic section of this catalog for further details of the process.

Unofficial withdrawals encompass those students who fail to initiate and/or complete the official withdrawal process as noted above.

Ceasing to attend class without proper notification to the Office of Admissions or the Office of the University Registrar will result in an unofficial withdrawal and a refund calculation will be performed to determine the amount of Title IV aid earned and the amount to be returned to the Title IV programs. The student is responsible for any resulting balance owed to the University.

All students who borrow federal student loans and cease at least half-time attendance at the University are required to complete exit counseling at www.studentloans.gov.

Satisfactory Academic Progress - Undergraduate Students

Federal regulations require California Baptist University to establish, publish, and apply standards of Satisfactory Academic Progress (SAP) for financial aid eligibility. The purpose of measuring and enforcing these standards is to ensure financial aid recipients' progress towards graduation. Students who fail to meet the satisfactory academic progress requirements become ineligible to receive financial aid until they are in compliance with these requirements. To be eligible for financial aid, a student must be in good academic standing, making satisfactory progress toward the completion of a certificate or degree, within a maximum time frame. Students are evaluated annually following the Spring semester of the academic year to ensure the minimum standards are met. Students failing to meet the minimum standards will progress through the aid statuses defined as follows:

Financial Aid Suspension

Status assigned to a student who fails to make Satisfactory Academic Progress by the end of the academic year. The student is no longer eligible to receive financial aid. The student has the right to appeal the suspension. Aid is terminated until student's written appeal is submitted and approved.

Financial Aid Probation

Status assigned to a student who received a Financial Aid Suspension and submitted an appeal which has been approved, allowing the student's aid to be reinstated for a probationary term. The student must complete their probationary term successfully or their aid will be terminated.

It is the responsibility of the student to notify the Financial Aid Office of any status changes, grade changes, summer or winter term classes. If a student has a grade change or takes summer or winter term classes the student must notify the Financial Aid Office. Once the Financial Aid Office has been notified and the student has provided appropriate documentation, the Financial Aid Office can review and reassess the student's financial aid eligibility and Satisfactory Academic Progress status. If a student proves to be meeting Satisfactory Academic Progress due to additional degree applicable classes or a grade change, the student will no longer be subject to SAP and their financial aid will be reinstated. The Financial Aid Suspension status will become void for the term in these situations.

Measure of Progress

Qualitative Measure

Students must maintain a minimum cumulative grade-point average (GPA) of 2.0. GPA's are reviewed at the end of the academic year. Students failing to achieve a minimum 2.0 GPA are given a Financial Aid Suspension status. The student is eligible to appeal the suspension.

If the appeal is approved, the student must continue to earn a minimum 2.0 session GPA to continue making satisfactory progress toward a cumulative 2.0 GPA. A 2.0 session GPA is the minimum standard measurement for continuing progress. The student will need to earn higher than 2.0 session GPA(s) to correct a deficiency.

Students on Financial Aid Probation failing to earn the minimum 2.0 session GPA will be returned to a Financial Aid Suspension status. The student will not be eligible to receive financial aid until the cumulative GPA is raised to a 2.0

Quantitative Measure

Student must successfully complete a minimum of 67 percent of units in which they enroll. Unit completion is reviewed at the end of the academic year.

Grades of F, W (Withdraw), and I (Incomplete), do not demonstrate satisfactory course completion. Challenge exams and audited courses are not considered. Transfer credit that has been officially accepted to complete program requirements will demonstrate satisfactory course completion for quantitative measure (unit requirement). All transfer credit received from other recognized entities will affect the 2.0 GPA qualitative measure requirement of Satisfactory Academic Progress.

Students initially failing to complete 67 percent of their enrolled cumulative units will be given a Financial Suspension. The student is eligible to appeal the suspension.

If the appeal is approved, the student is placed on Financial Aid Probation and must continue making satisfactory progress in each subsequent term according to a specific plan of action determined for the student to reach the minimum qualitative requirement of 67 percent. The student must complete all units attempted within the subsequent term with a minimum GPA of 2.0.

Students on Financial Aid Probation failing to achieve prescribed unit requirement plan in a subsequent term will be given a Financial Aid Suspension. The student will not be eligible to receive financial aid until the successful completion of 67 percent of enrolled unit requirement is achieved.

Maximum Time Frame Measure

Programs of study, must be no longer than 150 percent of the published required units of the educational program. The measurement includes all accepted transfer units as well as units completed at CBU. For example, if your published program length is 124 units, you will exceed the maximum time frame when you surpass 186 units.

Readmitting Students

A readmit student that does not have the minimum GPA for their program will need to refer to the Satisfactory Academic Progress - Traditional Undergraduate Students, portion of this catalog. Students may need to submit a written appeal for approval of a term of Financial Aid Probation. Once the student's written appeal is submitted and approved the student's aid will be reinstated for the probationary term.

Withdrawals and Cancellations

Withdrawal from the semester after the first day of classes counts as a semester attended when determining overall maximum unit completion and minimum unit completion, unless the student drops all classes and does not receive W grades for the given semester. Cancellation of registration on or before the first day of classes does not count as a semester attended when determining maximum unit completion and minimum unit completion. Students must complete their exit counseling at www.studentloans.gov upon ceasing attendance between terms.

Repeated Courses

Financial aid will be given for the course in which a student has not received a passing grade. Once a student has passed the course, they may not receive financial aid to retake the course. Repetition of a passed course will not count toward the student's enrollment status for financial aid purposes.

Concurrent Enrollment

Students attending California Baptist University and another college or University concurrently are eligible for aid at California Baptist University based on the coursework and GPA acquired at California Baptist University only.

Leave of Absence

If a student is approved for a Leave of Absence during the academic year, it is the student's responsibility to meet with the financial aid office to adjust aid appropriately. If the student has borrowed Federal Direct Loans, repayment will begin after six months of less than half time enrollment. A student must complete exit counseling at www.studentloans.gov upon ceasing attendance between terms.

Unusual Enrollment History

The U.S. Department of Education has made efforts to prevent fraud and abuse in the Federal Pell Grant and Student Loan Program by identifying students with an unusual enrollment history (UEH). A UEH Flag indicates whether the student has an unusual enrollment history with regard to receiving Pell Grant funds and/or Direct Loans and is intended to address possible fraud and abuse in the Title IV student aid programs. ALL UEH flags must be reviewed by the University before a student can receive any Federal Student Aid. The University must review ALL UEH student's official transcripts from all schools that they have attended over the past four years, and in some cases may go back further, before a student is cleared to receive any Federal Student Aid.

The specific enrollment pattern of concern to the U.S. Department of Education is where the student attends an institution long enough to receive Title IV credit balance funds, leaves without completing the enrollment period, enrolls at another institution, and repeats the pattern of remaining just long enough to collect another Title IV credit balance without having earned any academic credit.

Some students who have an unusual enrollment history have legitimate reasons for enrollment at multiple institutions. However, such an enrollment history requires a review to determine whether there are valid reasons for the unusual enrollment history.

Appeal Process

Before filing an appeal for reinstatement of financial aid, it is important that students seek assistance from an Academic Advisor (campus-based student) or One-Stop Student Service Advisor (OPS student) to explore ways of eliminating unit deficiencies and to establish a realistic plan towards graduation. At the time of termination, the Financial Aid Office will provide the student with instructions on how to appeal. A copy of the appeal form can be obtained from the Financial Aid Office. When filing an appeal, please provide a full explanation, along with documentation, verifying the circumstances that led to the inability to meet the minimum progress requirements. It is important that a definite plan towards graduation is established. An Academic Success Plan should be completed with the assistance of an Academic Advisor or One-Stop Student Service Advisor and submitted along with the letter of appeal. Should the appeal be approved, it is important that the Academic Success Plan be realistic as the ability to adhere to the plan will be closely monitored. Failure to follow the courses and units outlined may be used as a basis for future denial of financial aid.

If the Appeal is Denied

Students that do not have their appeals approved will receive information regarding other alternatives available to them. Some options include:

1. Continuing enrollment at California Baptist University without any financial assistance
2. Continuing enrollment at California Baptist University with the assistance of private loans. The Financial Aid Office can provide the student with information on these loans.
3. Taking a leave of absence from California Baptist University to make up a portion or all of the deficient units at a Community College. In this case a student will have to file an additional appeal to have aid reinstated once the student has completed the required units and demonstrated the ability to continue at California Baptist University without having incurred any additional deficiencies. The Financial Aid Office recommends that the student speak with Academic Advising to ensure that any classes taken elsewhere will count towards the student's program.

Institutional Financial Aid Programs for Online and Professional Studies Students

Common Requirements for Institutional Programs

With regard to institutional financial assistance, the following common requirements have been established for all students enrolled in Online and Professional Studies:

1. All scholarships are applied directly to a student's account. No cash distributions are made directly to the scholarship recipient. Scholarships are not transferable to any student other than the recipient.
2. In order to maintain aid eligibility, students receiving any financial aid must maintain satisfactory academic progress, as stated in this catalog.
3. Institutional scholarships are limited and may not be awarded if all available funds have been appropriated.
4. Students must submit all requested documents as soon as possible, but no later than two weeks prior to the end of each Fall semester, Spring semester, and Summer semester.
5. All awards are based on full-time enrollment of twelve (12) units per semester or session. Students enrolled for less than twelve (12) units are eligible to receive aid, prorated accordingly.
6. All institutional aid is tuition-based. If a student receives additional non-institutional tuition-based aid (such as Cal Grant), the amount of tuition-based aid may need to be reduced so the total tuition-based aid does not exceed the cost of tuition.

Institutional Financial Aid Programs for Traditional Undergraduate Students

Common Requirements for all Institutional Aid

1. Students applying for institutional aid are encouraged to apply for other forms of grant-based aid available through federal and state programs.
2. Institutional aid is applied to tuition, fees, and on-campus room and board charges only. Institutional aid consists of grants and scholarships from California Baptist University and is not to exceed the total cost of tuition, fees, and on-campus room and board.
3. Institutional aid is applied directly to a student's account. No cash distributions are made directly to the recipients. Institutional aid is not transferable to students other than the recipient.
4. Institutional aid recipients must maintain at least half-time enrollment in order to remain eligible. For financial aid purposes, half-time enrollment is defined as six (6) units.
5. Institutional aid will be prorated based on the student's enrollment status.
6. University Residency Requirements apply to all students who receive institutional aid. Please refer to the Student Handbook (section 81) for details.
7. Students receiving institutional aid must maintain satisfactory academic progress as stated in this catalog. Students receiving participation scholarships may remain eligible at the discretion of the department.
8. Institutional aid is coordinated and adjusted with other forms of aid and cannot exceed a student's direct cost. If a student is a Cal Grant recipient, institutional aid cannot exceed the student's calculated need per California Student Aid Commission policy.
9. Institutional aid may not be applied to travel/study abroad programs conducted by the University. This does not include the field practicum requirement for Intercultural Studies.
10. Students concurrently enrolled in other institutions are eligible for California Baptist University institutional aid based only on the units being taken at CBU.
11. Institutional aid is awarded for the Fall and Spring Semesters only, unless otherwise indicated.
12. Individual departments may award scholarships for Fall, Spring, or Summer. Eligibility requirements, semesters of availability and amount of aid offered is at the discretion of the department. Students receiving "tuition discount," through their Memorandum of Understanding (MOU) cannot get other institutional aid. Students can only receive the MOU or institutional aid, whichever is greater.

Academic Scholarships - Traditional Programs

Merit Scholarships

Award amounts are listed for students enrolling for the first time at California Baptist University. Merit scholarship policy is established and approved at the highest administrative levels of the University and the scholarships are awarded yearly by entering class. Please note a merit scholarship will never increase for a current student based upon an increased grade point average or increased scholarship amounts of a new entering class. A merit scholarship will remain the same for the student's entire time at the University, provided minimum GPA requirements are met.

Please note: Students are subject to the scholarship policies as outlined in the catalog of the year in which they entered CBU. Students taking a leave of absence from CBU will be subject to their original catalog scholarship policies upon reentering the University. Exceptions to this clause are at the sole discretion of the University.

Merit scholarships fall into two categories:

- First Time Freshman
- Transfer Student

New students are considered first time freshmen if they have under 24 college units from an accredited college or university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.

New students are considered transfer students if they have completed 24 or more units from an accredited college or university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.

First Time Freshman Merit Scholarships

First Time Freshman Merit Scholarships are awarded based on the student's final high school cumulative weighted GPA. Students are placed into one of four Merit Scholarship Tiers:

- Trustee's Scholarship ($14,500) 4.0 GPA and above
- President's Scholarship ($13,500) 3.9 - 3.99 GPA
- Dean's Scholarship ($12,500) 3.3 - 3.89 GPA
- Director's Scholarship ($8,000) 2.95 - 3.29 GPA

Procedure

- Potential recipients must submit final official high school transcripts to the Undergraduate Admissions Office.
- Students must complete a FAFSA and submit all requested financial aid paperwork to the Financial Aid Office should they wish to be considered for need-based sources of financial aid.

Director's Scholarship

Eligibility

- The Director's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If student's cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Director's Scholarship.
- Once the scholarship is lost, it cannot be restored.

Award

- A recipient may receive up to $ 4,000 per semester for the Fall and Spring Semesters

- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

Dean's Scholarship

Eligibility

- The Dean's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Dean's Scholarship.
- Once the scholarship is lost, it cannot be restored.

Award

- A recipient may receive up to $6,250 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

President's Scholarship

Eligibility

- The President's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the President's Scholarship.
- Once the scholarship is lost, it cannot be restored.

Award

- A recipient may receive up to $6,750 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

Trustee's Scholarship

Eligibility

- The Trustee's Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to entering freshmen.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Trustee's Scholarship.
- Once the scholarship is lost, it cannot be restored.

Award

- A recipient may receive up to $7,250 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

Transfer Merit Scholarships

Transfer student Merit Scholarships are awarded based on the earned cumulative GPA for 24 or more units at a college or University recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation. Students are placed into one of four Merit Scholarship Tiers:

- Transfer Platinum Scholarship ($10,000) 3.75 GPA and above
- Transfer Gold Scholarship ($9,000) 3.5 - 3.74 GPA
- Transfer Blue Scholarship ($7,500) 3.0 - 3.49 GPA
- Transfer Bronze Scholarship ($6,000) 2.5 - 2.99 GPA

Procedure

- Potential recipients must submit final official transcripts from all previous colleges or universities attended to the Undergraduate Admissions Office.

Transfer Platinum Scholarship

Eligibility

- The Transfer Platinum Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.75 or above.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Platinum Scholarship.
- Once the scholarship is lost it cannot be restored.

Award

- A recipient may receive up to $5,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

Transfer Gold Scholarship

Eligibility

- The Transfer Gold Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.

- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.5 to 3.74.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Gold Scholarship.
- Once the scholarship is lost it cannot be restored.

Award

- A recipient may receive up to $4,500 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

Transfer Blue Scholarship

Eligibility

- The Transfer Blue Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of 3.0 to 3.49.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Blue Scholarship.
- Once the scholarship is lost it cannot be restored.

Award

- A recipient may receive up to $3,750 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

Transfer Bronze Scholarship

Eligibility

- The Transfer Bronze Scholarship is a merit-based scholarship designed to attract and retain students of exceptional academic ability.
- The scholarship is available only to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 2.5 or above.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- If the cumulative GPA is below the minimum 2.0 requirement when reviewed at the end of each spring semester, the student will not retain the Transfer Bronze Scholarship.
- Once the scholarship is lost, it cannot be restored.

Award

- A recipient may receive up to $3,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the Admissions Office and are renewable annually as long as eligibility is maintained.

Departmental Scholarship - Traditional Programs

Architecture Scholarship

Description

- The Architecture Scholarship is designed for students who are serious about pursuing architecture.

Award

- Award amounts are determined by the College of Architecture, Visual Arts, and Design.

Procedure

- Potential recipients should apply directly with the College of Architecture, Visual Arts, and Design.

Athletic Scholarship

Description

- The Athletic Scholarship is designed to assist students who have been chosen to represent the University on one of the intercollegiate athletic teams.

Eligibility

- A recipient must be selected for participation on one of the University's athletic teams.
- A recipient must meet eligibility requirements of the National Collegiate Athletic Association (NCAA), The Western Athletic Conference, and institutional policy.
- A recipient must sign a participant agreement and an Athletic Grant In Aid Form with the University.

Award

- A recipient may receive up to full tuition, required fees, room, and board per semester for the Fall and Spring semesters.
- Scholarships will be accepted by signature of an Athletic Grant In Aid Form.
- Scholarships are awarded in accordance with NCAA and institutional bylaws, regulations, and policies.

Procedure

- Potential recipients should apply directly with the Athletic Department. If the student is offered a scholarship, the student will receive a letter from the Financial Aid Office.

Bachelor of Applied Theology Scholarship

Description

- The Bachelor of Applied Theology (BAT) Scholarship is designed to assist students that are preparing to be pastors and church leaders.

Eligibility

- Student must apply and be accepted to the BAT program.
- Students must sign the program contract with the School of Christian Ministries.

Award

- The award varies each year as approved by the Dean of the School of Christian Ministries and by the President of the University.
- BAT scholarship recipients are not eligible to receive other institutional aid with the exception of those listed below:
    - VA Yellow Ribbon Program Scholarship
    - Participation-based scholarships
    - Donor scholarships

Procedure

- Applicants should apply directly with the School of Christian Ministries.

Engineering Scholarship

Description

- The Engineering Scholarship is designed to attract and assist students who plan to major in engineering.

Eligibility

- Recipients are selected by the College of Engineering in the spring and summer prior to the award year. Most of the scholarships are awarded for academic achievement prior to coming to California Baptist University based on transcripts, and SAT, ACT, or CLT scores.

Award

- The award amount varies each year as approved by the Dean of the College of Engineering.

Procedure

- Potential recipients should apply directly with the College of Engineering.

College of Architecture, Visual Arts, and Design Scholarship

Description

- The College of Architecture, Visual Arts, and Design (CAVAD) Scholarship is designed for students who are serious about pursuing these disciplines.

Award

- Award amounts are determined by the College of Architecture, Visual Arts, and Design.

Procedure

- Potential recipients should apply directly with the College of Architecture, Visual Arts, and Design.

Journalism and Speech/Debate Scholarship

Description

- The Journalism and Speech/Debate Scholarship is designed to attract and assist students who have been selected for participation in journalism or speech and debate.
- A recipient must be selected by the Communication Arts Department for participation in the publication of The Banner Student Newspaper, The Angelos Yearbook, or the Forensic Speech and Debate Team.

Award

- The award amount varies each year as approved by the department.

Procedure

- Potential recipients should apply directly with the Communication Arts Department.

Music Scholarship

Description

- The Music Scholarship is designed to attract and assist students who have been chosen for participation in one of the University's music performance groups.

Eligibility

- A recipient must be selected by the School of Music for participation in a music performance group or as a staff accompanist. A recipient must sign a contractual agreement with the School of Music.
- Ensemble members or music students receiving a music scholarship are required to make normal academic progress in their academic studies. Normal academic progress is defined as enrolling in and successfully completing the proper sequence of courses listed in the current School of Music Handbook each semester. Students must comply with departmental procedures and make satisfactory progress toward their degree as reviewed by the School of Music faculty. This review can occur at any point during the semester or academic year.

Award

- Recipients may receive varying amounts for the Fall and Spring semesters.
- Music scholarships are awarded on a semester-by-semester basis only.

Procedure

- Potential recipients should apply directly with the School of Music.

ROTC Room and Board Scholarship

Description

- The Room and Board Scholarship is designed to assist students who receive full tuition scholarships from one of the US Military branches of service.

Eligibility

- Recipients of the Room and Board Scholarship must be recipients of full tuition scholarships provided by the military.

Award

- Recipients will be awarded the amount of a meal plan and standard room. When applicable, the total award package, including other federal, state, and institutional aid, may be adjusted to avoid exceeding direct cost.

Procedure

- Interested students should inquire with the office of the Assistant Professor for Military Science.

Theater Arts Scholarship

Description

- The Theater Arts Scholarship is designed to attract and assist students who have been selected for participation in annual drama and theater productions.
- A recipient must be selected by the Communication Arts Department for participation in the major play production (dramatic or technical) or drama ministry teams.

Award

- Award amounts are determined by the Theater Department.

Procedure

- Potential recipients should apply directly with the Communication Arts Department.

Other Scholarships

California Baptist University Grant

Description

- The California Baptist University Grant program is a need-based grant offered to traditional undergraduate students.

Eligibility/Award

- The CBU Grant is an institutional need-based grant that is awarded to students who demonstrate need as determined by the results of the FAFSA and consideration of all other sources of gift aid.
- The grant is renewable provided the student continues to demonstrate financial need, is maintaining satisfactory academic progress, and meets all other eligibility requirements to receive institutional aid.
- The CBU Grant is coordinated with all other sources of aid and is subject to reduction based upon other aid sources received prior to and during the course of the academic year.

Procedure

- Students must complete a FAFSA and submit all requested financial aid paperwork to the Financial Aid Office to be considered for need-based sources of financial aid.

California Baptist University Promise Grant

Description

- The California Baptist University Promise Grant program guarantees that students receive a minimum of $5,000 of institutional aid.

Eligibility/Award

- The CBU Promise Grant is an institutional grant that is awarded to students who have less than $5,000 of institutional aid.
- It is added to the student's financial aid offer in an amount that, when added to all other sources of institutional aid, brings the student's total institutional aid to $5,000.
- The grant is renewable provided the student continues to need the award to meet the $5,000 promise, is maintaining satisfactory academic progress, and meets all other eligibility requirements to receive institutional aid.
- The CBU Promise Grant is coordinated with all other sources of institutional aid and is subject to reduction based upon other institutional aid received prior to and during the course of the academic year.

Procedure

- As with all sources of institutional aid, the Promise Grant will be prorated based on the student's enrollment status.

Preferred District Scholarship

Description

- The Preferred District Scholarship program guarantees that first time freshmen entering CBU from one of the selected school districts having an agreement with California Baptist University receive a minimum of $10,000 institutional aid.

Eligibility/Award

- The Preferred District Scholarship is an institutional grant that is awarded to first time freshmen entering CBU from one of the selected school districts, as determined by the Admissions Office, who have less than $10,000 of institutional aid.

- It is added to the student's financial aid offer in an amount that, when added to all sources of institutional aid, bring the total institutional aid to $10,000.
- The grant is renewable provided the student continues to need the award to meet the $10,000 guarantee, is maintaining satisfactory academic progress, and meets all other eligibility requirements to receive institutional aid.
- The Preferred District Scholarship is coordinated with all other sources of institutional aid and is subject to reduction based upon other institutional aid received prior to and during the course of the academic year.

Procedure

- Students must complete a FAFSA and turn in all requested financial aid paperwork to the Financial Aid Office.
- Potential recipients must submit final official high school transcripts to the Undergraduate Admissions Office.
- As with all sources of institutional aid, the Preferred District Scholarship will be prorated based on the student's enrollment status.

Out of State Grant

Description

- The Out of State Grant program guarantees that students entering CBU, whose primary residence is a state other than California, receive a minimum of $10,000 of institutional aid. The Grant is not available to students entering through International Admissions.

Eligibility/Award

- The Out of State Grant is an institutional grant that is awarded to students entering CBU, whose primary resident is a state other than California, who have less than $10,000 of institutional aid.
- It is added to the student's financial aid offer in the amount that, when added to all sources of institutional aid, brings the total institutional aid to $10,000.
- The grant is renewable provided the student continues to need the award to meet the $10,000 guarantee, is maintaining satisfactory academic progress, and meets all other eligibility requirements for institutional aid.
- The Out of State Grant is coordinated with all other sources of institutional aid and is subject to reduction based upon other institutional aid received prior to and during the course of the academic year.

Procedure

- Students must complete a FAFSA and turn in all requested financial aid paperwork to the Financial Aid Office.
- Potential recipients must submit final official high school transcripts to the Undergraduate Admissions Office.
- As with all sources of institutional aid, the Out of State Grant will be prorated based on the student's enrollment status.

Church-Related Vocation (CRV) Scholarship

Description

- The Church-Related Vocation (CRV) Scholarship is designed to assist students who are preparing for a vocation as a minister.

Eligibility

- The recipient must be a Southern Baptist student preparing for vocational ministry as a minister of education, music, children, youth, pastor, missionary, or denominational minister through the Southern Baptist Convention.
- Applicants for the scholarship must be interviewed and recommended by a faculty member of the School of Christian Ministries.
- Recipients must satisfactorily participate in the Supervised Ministry Program for students preparing for ministry in a church-related vocation.
- Recipients must complete at least nine (9) units of upper division coursework within the School of Christian Ministries.
- A local Southern Baptist Church must certify the recipient's status. Satisfactory church attendance and participation are required.
- The scholarship is renewable annually, with approval of the Dean of the School of Christian Ministries.

Award

- Recipients who have earned less than sixty (60) units may receive up to $750 per semester for the Fall and Spring semesters. Recipients who have earned sixty (60) or more units may receive up to $1,000 per semester for the Fall and Spring semesters.

Procedure

- Applications are available in the School of Christian Ministries.

International Mission Board Scholarship

Description

- The International Mission Board Scholarship assists the dependent children (as determined by the student's FAFSA) of an active missionary employed by the Southern Baptist Convention International Mission Board (IMB), or a missionary on furlough (stateside assignment) recognized as an IMB employee.

Eligibility

- Recipients must be a traditional undergraduate student.
- Recipients must be enrolled fulltime (12 or more units).
- Recipients must make semesterly progress toward the completion of an undergraduate degree.
- Recipients must maintain Satisfactory Academic Progress.
- Recipients must maintain continuous enrollment at CBU. Exceptions may be granted in writing from the Student Services Office under limited circumstances (e.g. students who experience medical and/or emotional issues).
- Recipients may only apply the IMB Scholarship to their first traditional undergraduate degree program.
- Recipients must meet University Residency Requirements including residing in University housing and maintaining meal plan requirements. Please refer to the Student Handbook ("Meal Plans" and "Enrollment and Residency Requirements") for details.
- Recipients must abide by the CBU Standard of Student Conduct, understanding failure to do so may result in loss of this scholarship.

Award

- Recipients will be awarded 75% of tuition. All other fees, including room and board charges, are the responsibility of the student.
- A recipient is eligible to receive participation based scholarships, but is not eligible for any other institutional aid.
- The scholarship will cover degree applicable courses for the first bachelor's degree.
- If the recipient is a Cal Grant recipient, he or she can receive the scholarship up to the cost of tuition, general fee, and student services fee.
- International Missions Board Scholarships are awarded during all academic terms: Fall, Spring, and Summer.

Procedure

- Potential recipients should inquire with the Undergraduate Admissions Office.

Minister's Kin Scholarship

Description

- The Minister's Kin Scholarship assists the dependent children of evangelical ministers.

Eligibility

- The recipient must be the dependent child (as determined by the FAFSA) of a minister engaged in full-time service as a pastor, minister of education, music, children, youth, chaplain, missionary appointed by the Southern Baptist North American Mission Board or denominational employee engaged in a full-time vocational ministry. Students receiving a Bachelor's of Applied Theology are not eligible for a Minister's Kin Scholarship.
- The scholarship is renewable annually.

Award

- A recipient may receive up to $1,625 per semester for the Fall and Spring semesters.

Procedure

- Potential recipients should inquire directly with the Admissions Office.

Multiple Sibling Discount

Description

- The Multiple Sibling Discount is designed to assist dependent students from families with two or more members who are simultaneously attending the Traditional Undergraduate Program at California Baptist University on a full-time basis.

Eligibility

- Recipients must be immediate members of the same family (siblings) in which two or more family members are currently enrolled at California Baptist University in the Traditional Undergraduate Program on a full-time basis.
- Online and Professional students are not eligible.

- Siblings must both be dependent students as defined by the FAFSA.

Award

- Recipients receive $1,000 per semester for the Fall and Spring semesters.

Procedure

- Potential recipients should complete the FAFSA and turn in all required paperwork to the Financial Aid Office. New students should inquire directly with the Admissions Office.

VA Yellow Ribbon Program Scholarship

Description

- The Yellow Ribbon GI Education Enhancement Program is a provision of the Post-9/11 Veterans Education Assistance Act of 2008. The program provides for an agreement between California Baptist University and the Department of Veterans Affairs to award scholarships to qualified VA students to fund tuition and fees that exceed benefits available under the Post 9/11 GI Bill® (Chapter 33). Under the agreement, VA will match CBU's scholarship contribution.

Eligibility

- Student must qualify for the Post-9/11 GI Bill® through Veterans Affairs and elect to receive benefits under the Post-9/11 GI Bill® program.
- Students must qualify for Yellow Ribbon program benefits as defined by the Post-9/11 GI Bill® and Yellow Ribbon GI Education Enhancement Program.

Award

- Recipients may receive varying amounts to be determined by semester enrollment, tuition, and fee charges.
- Yellow Ribbon Scholarships are offered in lieu of CBU funded aid, including previously offered CBU funded academic or other institutional scholarships. However, Yellow Ribbon recipients will remain eligible to receive specific participation scholarships, in addition to the Yellow Ribbon Scholarship. The specific participation scholarships are as follows: athletics related, music, theater, speech/debate, Bachelor of Applied Theology program. The combination of these specific participation scholarships and Yellow Ribbon scholarships will only be funded up to direct charges and books and will not be refundable. If veteran benefits expire prior to graduation, academic or other institutional scholarships may be reinstated as long as academic renewal requirements have been met.
- Recipients will be awarded in the current and subsequent academic years in which the University participates in the Yellow Ribbon Program and the student maintains continued enrollment, conduct, and attendance.
- CBU's undergraduate Yellow Ribbon Scholarship award shall not exceed $10,000 for any given academic year.

Procedure

- Students who qualify for the Post-9/11 GI Bill® and the Yellow Ribbon Program as determined by their VA Certificate of Eligibility should apply directly with the Veterans Resource Center, Office of Student Success.

Policy

- Students who utilize VA Chapter Benefits for tuition and fees at CBU may have their institutional scholarship aid reduced to direct costs. Institutional aid is not refundable and VA Chapter Benefits will be applied to tuition and fees first.

International Student Scholarships for Undergraduate Students

Common Requirements for International Student Scholarships

- Institutional aid is applied to tuition, fees, room and board charges only. Institutional aid consists of grants from California Baptist University and is not to exceed the total cost of tuition, fees and on-campus room and board.
- Institutional aid is applied directly to a student's account. No cash distributions are made directly to the recipients.
- Institutional aid is not transferable to students other than the recipient.
- Institutional aid recipients must maintain full-time enrollment to remain eligible. For financial aid purposes, full-time enrollment is defined as twelve (12) units for undergraduate students. By exception, institutional aid will be prorated to the enrollment status of half-time or less.
- Students receiving institutional aid must maintain satisfactory academic progress as stated in this catalog. Students receiving participation scholarships may remain eligible at the discretion of the department.
- Students concurrently enrolled in other institutions are eligible for California Baptist University institutional aid based only on the units being taken at CBU.
- Generally, institutional aid is awarded for the Fall and Spring semesters only, unless otherwise indicated.
- Students receiving "tuition discount" through their Memorandum of Understanding (MOU) cannot receive other institutional aid. Students can only receive the MOU or institutional aid, whichever is greater.

Global Initiatives Grant

Description

- The Global Initiatives Grant program is based on merit and need.

Eligibility

- Student must maintain a cumulative grade point average (GPA) of 2.0 or higher.
- Student must demonstrate need as determined by the results of the international student financial aid packet to be eligible.
- New and continuing international students are eligible for the grant.
- The grant is renewable dependent upon meeting the eligibility requirements and availability of funds.

Award

- Students are eligible to receive up to $4,000 per semester.

Procedure

- Potential recipients should complete and submit the International Financial Aid Packet and any other requested paperwork to the International Center.

Ambassador's Scholarship

Description

- The Ambassador's Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

Eligibility

- The scholarship is available only to entering freshmen.
- The recipient must have earned a minimum cumulative high school grade point average (GPA) of 3.5 on a 4.0 scale.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the cumulative GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

Award

- A recipient may receive up to $6,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

Diplomat's Scholarship

Description

- The Diplomat's Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

Eligibility

- The scholarship is available only to entering freshmen.
- The recipient must have earned a minimum cumulative high school grade point average (GPA) of 3.0 - 3.49 on a 4.0 scale.
- The scholarship is renewable annually provided a minimum 2.0 cumulative GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the cumulative GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

Award

- A recipient may receive up to $4,500 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

Transfer INTERNATIONAL NAVIGATOR Scholarship

Description

- The Transfer INTERNATIONAL NAVIGATOR Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

Eligibility

- The scholarship is only available to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.3 or above.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

Award

- A recipient may receive up to $4,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

Transfer INTERNATIONAL EXPLORER Scholarship

Description

- The Transfer INTERNATIONAL EXPLORER Scholarship is a merit-based scholarship designed to attract and retain international students of exceptional academic ability.

Eligibility

- The scholarship is only available to incoming transfer students who have completed 24 or more units from an accredited university recognized by the U.S. Department of Education and/or the Council for Higher Education Accreditation.
- The recipient must have earned a college cumulative grade point average (GPA) of at least 3.0 - 3.29.
- The scholarship is renewable annually provided a minimum 2.0 GPA is maintained.
- Should the cumulative GPA drop below this requirement, the recipient will be given one probationary semester to restore the GPA to the minimum level. Only one such probationary semester will be allowed throughout the student's tenure at California Baptist University.

Award

- A recipient may receive up to $3,000 per semester for the Fall and Spring semesters.
- Scholarships will be awarded initially upon approval from the International Center and are renewable annually as long as eligibility is maintained.

Federal Financial Aid Programs for Undergraduate Students

Common Requirements for All Federal Programs

1. All students applying for federal aid must complete a Free Application for Federal Student Aid (FAFSA). It must be valid and have an official EFC.
2. Federal aid recipients must be a U.S. citizen, permanent resident, or eligible non-citizen.
3. Federal aid recipients must not be in default of a student loan and must not owe for an over payment of any federal educational grant.

4. Federal aid recipients must maintain satisfactory academic progress according to institutional standards as stated in this catalog.
5. Students concurrently enrolled at other institutions will only be eligible to receive financial aid for registered units at California Baptist University, unless there is an approved consortium agreement.

Note: Federal programs are subject to change at any time.

Federal Pell Grant

Description

- The Federal Pell Grant is a federally funded, need-based grant available to undergraduate students as determined annually by the U.S. Congress.

Eligibility

- Eligibility for the Federal Pell Grant is determined by the federal government according to a formula developed by the U.S. Department of Education and approved annually by Congress.
- Students must submit a FAFSA to determine eligibility. Students will be notified of eligibility via the Student Aid Report (SAR).
- If a student has less than 100% of Pell Grant eligibility for the year, then the maximum amount that can be awarded is added to their first term. Any remaining eligible amount is added their subsequent term.
- Students enrolled less than half time may qualify for a portion of their Pell Grant.

Award

- Award amounts vary based on the annual amount approved by Congress and the student's eligibility based on the FAFSA.

Federal Supplemental Educational Opportunity Grant (FSEOG)

Description

- The Federal Supplemental Educational Opportunity Grant is a federally funded, need-based, campus-based grant designed to supplement other sources of financial aid for students who qualify for additional assistance.

Eligibility

- Eligibility is determined by a student's expected family contribution (EFC). Students with the lowest EFC will be awarded first. Priority will be given to students with completed financial aid files. Availability is limited.

Award

- In general, the award is up to $2,000 per year, divided equally among fall and spring semesters of enrollment.
- The semester award amount will be prorated for less than half-time enrollment.

Federal Work Study Program

Description

- Federal Work Study (FWS) is a federally funded, need-based, campus-based work program designed to assist undergraduate and graduate students desiring a job on campus to earn money for their educational expenses.

Eligibility

- Eligibility is determined by a student's financial need as determined by the results of the FAFSA. Availability is limited.

Award

- FWS funds are not disbursed separately to the student, nor applied to the student's account; they are included in the student's regular paycheck. Work Study awards indicate a maximum amount for which a student is eligible. Student's earnings will be monitored each pay period and counted toward their eligibility.
- FWS earnings will not negatively impact FAFSA determined financial aid eligibility in subsequent years.

Procedure

- Students obtain an employment application from Career Services. The application is reviewed by Financial Aid for FWS eligibility. Once employment is obtained, FWS will be applied. FWS amounts are based on hours worked and financial need as determined by the FAFSA.

Federal Direct Loan

Description

- The Federal Direct Loan is a low-interest loan available to students who have financial need as determined by the results of the FAFSA. The loan is made to the student by the US Department of Education through the Direct Loan Program. Students should refer to www.nslds.ed.gov regarding payment details and servicer information for their Direct Loan repayments. Interest rates are subject to change upon congressional and presidential action.

  Federal Subsidized Direct Loan Interest Rates - No interest accrues while the student is enrolled in school at least half-time and repayment begins six months after graduating, leaving school, or dropping below half time enrollment.

  Federal Unsubsidized Direct Loan Interest Rates - Interest begins accruing after the first disbursement. The student is responsible for any interest accrued but can defer the interest with the principle of the loan. Unsubsidized loans have a fixed interest rate calculated yearly based upon the ten year Treasury note index, plus an add-on determined by congress. The interest rate is capped at 9.5%.

Eligibility

- Students are allowed subsidized loans for 150% of the published time frame for the program of study, up to the aggregate loan limit.
- Eligibility is determined by a student's financial need and grade level.
- First-time borrowers and transfer students must complete entrance counseling before any funds will be disbursed. Upon graduation or whenever a recipient ceases to be enrolled, exit counseling must be completed.
- When a refund is applicable, funds will be disbursed electronically directly to the student's preassigned account or via paper check if necessary.

Award

- See following chart for eligibility amounts.

Annual and Aggregate Loan Limits

Federal Direct Loans

	Dependent Students		Independent Students	
Academic Year	Base Direct Loan Amount	Additional Unsubsidized Loan	Base Direct Amount	Additional Unsubsidized Loan
Annual Limits				
Year 1	$3,500	$2,000	$3,500	$6,000
Year 2	$4,500	$2,000	$4,500	$6,000
Year 3, 4, 5	$5,500	$2,000	$5,500	$7,000
Aggregate Limits				
Undergraduate	$23,000	$8,000	$23,000	$34,500

Federal Parent Loan for Undergraduate Students (PLUS)

Description

- Federal PLUS loans are available to credit worthy parent borrowers. Loans are made by the U.S. Department of Education. Repayment of PLUS loans begins within 60 days after final disbursement is made to the school unless the borrower requests a loan deferment. Fixed interest rates are determined yearly by Congress, not to exceed 9%. Updated interest rate information is made available at studentaid.gov.

Eligibility

- Eligibility is dependent upon the amount of other financial aid a student receives. Federal PLUS loans are not need-based; however, when added to the student's financial aid, the total may not exceed the students cost of attendance.

Award

- Under the federal PLUS loan program, a parent may be eligible to borrow up to the difference between University costs and other aid received each academic year.

Note: Additional Direct Loans may also be available for dependent students whose parents do not qualify for a PLUS loan. A PLUS application must have been denied by the US Department of Education, prior to a dependent student receiving any additional unsubsidized loan.

State Financial Aid Programs

Common Requirements for State Programs

1. All students applying for new Cal Grant awards must submit a FAFSA and a GPA verification form by the published deadline (usually March 2). Current Cal Grant recipients must also submit the FAFSA to determine renewal of Cal Grant eligibility.

2. All students applying for state aid must be U.S. citizens, permanent residents, eligible non-citizens or, eligible AB540 student as determined by the state of California.
3. State aid recipients must be residents of California. Until age 18, the student's residency status is determined by that of the parents. After age 18, the student's personal residency must be verified.
4. State aid recipients must maintain at least half-time enrollment to be eligible to receive Cal Grant. For financial aid purposes, half-time enrollment is defined as six (6) units. Award amounts will be prorated for students enrolled less than full time in any semester or term.
5. State aid recipients must not be in default on a student loan and not owe a refund on any state or federal educational grant.
6. State aid recipients must make satisfactory academic progress as explained under the Satisfactory Academic Progress section of this catalog.
7. California Baptist University does not have a mandatory fifth year program.
8. If a student becomes a Cal Grant recipient, other awarded institutional aid may be reduced to prevent Cal Grant and institutional aid from exceeding demonstrated financial need.
9. Students concurrently enrolled at other institutions will only be eligible to receive financial aid for registered units at California Baptist University.
10. AB540 eligible students must complete the Worksheet for California Dream Act by the March 2nd deadline. Additional documentation may be required. Please visit www.csac.ca.gov for complete details.

Cal Grant A

Description

- The Cal Grant A is a state-funded, need and merit-based grant that provides tuition and fee assistance to eligible students.

Eligibility

- Eligibility is determined by a student's financial need as determined by the results of the FAFSA and cumulative GPA. Please consult the Financial Aid Office for further information regarding eligibility and funding levels.

Award

- Based on eligibility, Cal Grant A funds are awarded for tuition and fees only.
- Amounts are determined annually by the state legislature and administered by the California Student Aid Commission.
- Students interested in pursuing a Teaching Credential may be eligible for a 5th year Teaching Credential extension. Please see the Financial Aid Office for further information.

Cal Grant B

Description

- The Cal Grant B is a state-funded, need-based grant that provides tuition and fee assistance and an access allowance to students from low-income families.

Eligibility

- Eligibility is determined by a student's financial need as determined by the results of the FAFSA and cumulative GPA. Please consult the Financial Aid Office for further information regarding eligibility and funding levels.

Award

- Cal Grant B first-year, full-time recipients receive an access allowance only. The access allowance may vary according to state funding levels. In subsequent years, a Cal Grant B recipient enrolled full-time receives tuition and fee assistance in addition to the access allowance. The tuition and fee assistance award may vary according to state funding levels.
- Cal Grant B first-year recipients who are receiving the access portion only may be eligible to receive the California Baptist University Cal B Assistance grant. The California Baptist University Cal B Assistance is awarded only during the first year of a Cal Grant B award and should not exceed $7,412.
- Amounts are determined annually by the state legislature and administered by the California Student Aid Commission.
- Students have the option to apply the access portion of their Cal Grant B to their outstanding balance on their student account, or the student can request a personal receipt of the funds prior to the funds disbursing to use for educational purposes such as books and supplies. Students may contact the Financial Aid Office for more information regarding the access portion of their Cal Grant B.

Private Financial Aid Programs

Complete information regarding scholarships that are available to current California Baptist University students may be obtained at https://insidecbu.calbaptist.edu/ICS/Financial_Aid.

Student Accounts

Ms. Heidi Pendleton
Director of Student Accounts
Phone 951.343.4371
FAX 951.343.4515
StudentAccounts@calbaptist.edu

The University reserves the right, with or without notice, to change fees and charges when necessary.

Student Charges in U.S. Dollars

Tuition

Traditional Undergraduate Student Tuition

Fall and Spring Semesters	
Tuition Per Semester (13 - 18 units)	$17,459
Tuition Per Unit (below 13 units or above 18 units)	1,343
Summer Semester	
Tuition Per Unit (traditional students only)	613
Audit Tuition (per unit)	172

Traditional RN to BSN Student Tuition

RN to BSN Student Tuition (per unit)	$450

Online and Professional Studies Undergraduate Student Tuition

Online and Professional Studies Student Tuition (per unit)	$613
Prior Learning Portfolio Units (per unit)	196
Audit Tuition (per unit)	172
Continuing Education Tuition (per unit)	Market Rate
Professional Development Tuition (per unit)	Market Rate

Intensive English Program (IEP) Student Tuition

IEP Tuition Per Semester (12 units)	$5,250
IEP Tuition Per Unit	437.50
Traditional and Online & Professional Studies Courses	Applicable tuition rate

Internship, CBU Study Abroad, and Credit by Exam Units are all charged at the applicable per unit tuition rate based on the student's program.

Graduate students should refer to the Graduate University Catalog for financial information

Non-refundable Fees

(Applies to all programs; unless otherwise specified)

Required Student Fees

General Fee - Traditional Program (fall/spring)	
Traditional Students (with 6 or more units)	$750
Traditional Students (with 5 or less units)	255
General Fee - Online and Professional Studies (per semester)	
Online and Professional Studies (with 6 or more units)	365
Online and Professional Studies (with 5 or less units)	180
General Fee - Intensive English Program (fall/spring)	
IEP Students (with 6 or more units)	750
IEP Students (with 5 or less units)	255
Student Services Fee - Traditional and Intensive English Program (fall/spring)	
On-campus Students (with 6 units or more)	300
Off-campus Students (with 6 units or more)	280
International Students (in addition to student services fee; fall/spring)	300
Student Health Insurance (fall/spring)	
Traditional Student Health Insurance	1,145
International Student Health Insurance	1,145
Nursing Student Health Insurance	1,145
New Student Fee (New Traditional and Intensive English Program)	
Fall	310
Spring	160

Traditional Single Student Housing (per semester)

Housing Reservation Fee

Fall or Spring Semester

Tier 1 - Magnolia Crossing

Shared Occupancy

Private Occupancy

Tier 2 - College Park, Lancer Arms, The Colony, The Cottages, The Point, The Village, Tower Hall, University Houses, University Place

Shared Occupancy

Private Occupancy

Tier 3 - Simmons Hall, Smith Hall

Shared Occupancy

Private Occupancy

Board (Semester Meal Plans)

The following plans are available only to commuters:

Plan A (40 meals; 50 dining dollars)	$585
Plan B (60 meals; 50 dining dollars)	890
Plan C (85 meals; 100 dining dollars)	1,190

On Campus Residents must select one of the following:

Plan D (100 meals; 250 dining dollars; main campus apartment housing minimum)	1,485
Plan E (125 meals; 250 dining dollars; freshman housing minimum)	1,780
Plan F (150 meals; 250 dining dollars)	2,055
Plan G (170 meals; 300 dining dollars)	2,310
Plan H (190 meals; 350 dining dollars)	2,560
Plan I (215 meals; 350 dining dollars)	2,790
Plan J (235 meals; 400 dining dollars)	3,035
Plan K (255 meals; 450 dining dollars)	3,260
Plan L (280 meals; 450 dining dollars)	3,505
Plan O (70 meals; 450 dining dollars; only available to College Park, Magnolia Crossing, Spanish Oaks, University Houses)	1,360
Plan P (85 meals; 550 dining dollars; only available to College Park, Magnolia Crossing, Spanish Oaks, University Houses)	1,650
Plan Q (100 meals; 650 dining dollars; only available to College Park, Magnolia Crossing, Spanish Oaks, University Houses	1,935

Academic Fees

Art Lab Fee (ART 225, 300, 314, 325, 354)	$115
Aviation Lab Fees (per course) (See Aviation Flight, BS for more information)	
AMG 330	500
AMG 332	600
DSP 330	160
DSP 497	500
FLT 116	160
FLT 117	7,139
FLT 118	10,857
FLT 119	160
FLT 214	3,591
FLT 216	8,565
FLT 311	160
FLT 312	17,840
FLT 313	12,862
FLT 314	8,421
FLT 315	480
FLT 317	13,590
FLT 318	7,853
FLT 319	6,267
FLT 419	7,140
FLT 422	12,000
FLT495	140
FLT 140, 240, 340, 440	1,000
UAS 215	500
UAS 315	1,400
UAS 325	3,500
UAS 326	8,500
UAS 415	2,550
Business Oxford Trip Fee (BUS 398)	4,500

Capstone Reading Fee (CBS 499, ENG 499, HSC 499, IDS 499, LBS 498, LBS 499, PHI499, SPA499, THE498)	250
Catalina Lab (SCI 120, 412)	420
Ceramics Lab Fee (ART232)	50
Clinical Practicum Fee - Allied Health (HSC 495, KIN 433)	50
Clinical Practicum Fee - Allied Health (CDS 495)	100
Current Events Course Fee (ICS 375)	38
Design Thought (DES 310)	50
Directed / Independent Study (per unit, in addition to tuition)	275
Exemption by Certification (per Certification)	100
Exemption by Exam Fee (per Exam)	250
Film Fee (FLM 320)	1,500
Firearms Course Fee (CJS 120)	100
Global Practicum (ARC 484G, ARC 564G, BEH 334, ENV 495G, HED 520G, NUR 421G, NUR 539G, NUR 561G, PHO 498G, SWK 515G, SWK 576G, SWK578G)	4,100
Global Practicum (NUR 430G)	3,000
Global Practicum (Architecture Catch-up)	1,500
Graphic Design Course Fee (GDM 215, 225, 235, 371; TRAD only)	75
Illustration Course Fee (ILL 210, 310, 410; TRAD only)	75
Interior Design Studio (IND 310, 312, 410, 412)	500
Kinesiology Lab Fee (KIN 212)	110
Music Instruction Fee (MUS 334, 335, 346, 376, 418, 419)	335
Music Private Instruction (per lesson)	
1 lesson per week (1/2 hour)	340
2 lessons per week (1 hour)	680
Nursing Equipment Fee (NUR 201)	80
Photography Course Fee (PHO 105, 120, 140, 250, 330, 332, 350, 400, 432, 450, 485, 499)	150
Prior Learning Portfolio Reading Fee (per discipline)	120
Production Design Studio Fee (PDD 310, 410)	500
Production and Cinematography Course Fee (FLP 170, 306, 360)	150
Program Fees (per fall/spring semester unless otherwise specified)	
Architecture	1,350

	Commercial Music	325
	Computer Science Engineering	640
	Construction Management	640
	Engineering	1,480
	Journalism and New Media	130
	Music	125
	Nursing	1,675
	Nutrition and Food Science	
	For Majors (per semester)	420
	For Minors (per semester)	235
	Pre-Engineering	640
Science Labs (per lab)		210
Subject Matter Competency Fees:		
	CBU Student	110
	Non-CBU Student	220
Testing Fee (ANT 440, BEH 480, PSY 440, SOC 440)		25
Theatre Lab Fee (THE 113)		65
Theatre Lab Fee (THE 313)		90
Uniform Fees (annual)		
	Camerata (MUS 068, 490B)	325
	Lance Chorus (MUS 092, 490D)	325
	Magnolia Singers (MUS 091, 490C)	325
	Rhapsody Chorale (MUS 094, 490E)	325
	Symphonic Band (MUS 067, 490A)	325
	University Choir and Orchestra (MUS 090, 489)	600
	Wind Ensemble Uniform Fee (MUS 097, 490F)	325

Student Accounts

Credit Card Convenience Fee (assessed on credit and debit card payments by CBU's payment processor)	2.9%
Semester Payment Plan Enrollment Fee	$35
Study Abroad Processing Fee (Non-CBU programs)	280

Late Payment Fee	200
Dishonored Check (per check)	30
Wire Transfer Fee	30

Student Services

ISP Fee (International Service Project)	$3,500
USP Fee (United States Service Project)	2,300
SOS Fee (Summer of Service Project)	4,700
Lost Key	65

Registrar

Graduation Application Fee	175
Late Graduation Application Fee	200
Late Graduation Application Fee - OPS	50
Re-application for Graduation Fee	50
Duplicate Diploma Fee	50
Transcript Fee (per transcript)	10
Transcript Processing Fees	
Rush (same day, per transcript)	35
Next Business Day (per transcript)	15
Faxed Unofficial Transcript (per fax)	15
Transcript Delivery / Mailing Fees	
Electronic Delivery (per transcript)	No Charge
Standard U.S. Mail (per transcript)	2
Standard International Mail (per transcript)	2.10
Express Mailing - Two Day U.S. (per transcript)	25
Express Mailing - Next Day U.S. (per transcript)	30
Express Mailing - International (per transcript)	60

Admissions

Undergraduate	$45

Re-admission	25
Testing Fee (ACT, Undergraduate)	35

Policy for Student Accounts

All student account charges are due and payable by the Payment Due Date. To maintain enrollment, students must complete payment and agree to the terms and conditions of the Tuition and Fee Agreement, in addition to meeting all academic and standard of conduct requirements. The University expects students to cover all charges for the current semester before advancing to a future semester.

California Baptist University offers three payment options to assist students in covering tuition and fee charges. Students may choose to make a payment, set-up a monthly payment plan, and/or use financial aid to cover their balance. International, Special Admit, and Professional Development Students are required to pay their balance in full each semester by the Payment Due Date.

Students who remain enrolled past the last day to drop with refund must cover all charges incurred in accordance with the Policy for Refund of Tuition, Fees, Room, and Board Charges. If a balance exists, a hold will be placed on the student account preventing release of diploma, and future registration until the balance is paid in full with verified funds.

Payment Due Dates

All students should pay their balance by close of business day on the Payment Due Date to avoid a Late Payment Fee.

Semester	**Payment Due Date**
Fall 2021	Wednesday, August 11, 2021
Spring 2022	Wednesday, January 5, 2022
Summer 2022	Wednesday, May 4, 2022

University Approved Payment Options

Option 1 (Student Account Payment)

California Baptist University accepts the following forms of payment:

Online Payments - eCheck payments and credit/debit card payments are accepted online through InsideCBU. Visa, MasterCard, American Express, and Discover are accepted with a convenience fee. Foreign Currency Payments processed by Western Union Business Solutions are also accepted online.

Check Payments - Check payments can be made in the Student Accounts Office or mailed to California Baptist University; Attention: Student Accounts; 8432 Magnolia Avenue, Riverside, CA 92504. The student ID number should be listed on the check. All payments must be received in the Student Accounts Office by the Payment Due Date.

Option 2 (Monthly Payment Plan)

The monthly payment plan enables students to pay all or part of their semester charges in four monthly installments without interest. Payments are due on the 5th of the month. A $35 per semester enrollment fee is required. Re-enrollment by the Payment Due Date is required each semester. Please see the InsideCBU Student Accounts tab for more information.

Option 3 (Financial Aid)

Financial aid includes scholarships, grants, federal loans, and alternative loans. Students are encouraged to register and meet all financial aid requirements at their earliest opportunity. Financial Aid must be awarded and accepted by close of business day on the Payment Due Date. Please see the financial aid section of this catalog for more information.

Tuition and Fee Agreement

All students are required to submit a Tuition and Fee Agreement electronically through InsideCBU. The agreement outlines the student's financial responsibility for covering all student account charges. Students are encouraged to read the agreement and contact the Student Accounts Office with any questions prior to submission.

Delinquent Accounts

All student account charges are due and payable by the payment due date. Failure to make payments of any indebtedness to the University when due, including, but not limited to, tuition, housing or rental charges, student loans, laptop fees, special fees, library or parking fines, is considered sufficient cause, until the debt is settled with verified funds, to bar the student from classes, to record no grades on transcript, to withhold diploma, to dismiss the student, and to hold all records as the University deems necessary. At the completion of each semester, accounts with an outstanding balance are considered delinquent. Interest is charged on all delinquent accounts at a rate of .03% computed daily or 10% per year. In the event an account is turned over to a collection service, the cost of the service and reasonable attorneys' fees will be added to the account. Returning students will not be permitted to register for classes if a balance appears on their account.

Policy for Refund of Tuition, Fees, Room and Board Charges

The Student Accounts Office will automatically process tuition refunds for all eligible students. Tuition refunds are calculated from the date of official withdrawal. A withdrawal is considered official when a completed Petition to Withdraw Form has been submitted to the Admissions Office and processed by the Office of the University Registrar, Financial Aid, and Student Accounts.

Ceasing to attend does not constitute an official withdrawal from a course or from the University. However, a Title IV-unofficial withdraw may be processed, as required per federal regulations, which may necessitate the return of federal financial aid.

California Baptist University expects to deliver instruction to its students through its traditional in-person and online formats. By attending the University, students acknowledge this expectation and understand that the University may be compelled to modify course instruction formats due to circumstances or events beyond the University's reasonable control such as acts of God, acts of government, war, disease, social unrest, and accidents. As such, students attending the University assume the risk that circumstances may arise that mandate the closure of the campus or place restrictions upon the University's delivery of instruction. By attending the University, each student understands and agrees that they will not be entitled to a refund or price adjustment for the cost of course instruction if their courses are required to be provided in a modified format which the University deems appropriate under such circumstances.

Refer to the Financial Aid and Academic Information sections in this catalog for additional information regarding withdrawals.

Tuition, room, and board charges may be refunded or credited per the following schedules:

Traditional Undergraduate Program

Tuition

Withdrawal from a Course

Within add/drop period	A student may drop from a course and receive a full credit of tuition. No mark will appear on the transcript and no charge is incurred.
Within withdrawal period	A student may withdraw from a course. However, there will be no credit of tuition, and a "W" will appear on the transcript.

Withdrawal from the University (Traditional full-semester courses)

A student withdrawing from the University during the semester may receive a credit on tuition (room and board not included) according to the following schedule:

Within the first two weeks after semester begins	100%
Within the third week after semester begins	75%
Within the fourth week after semester begins	50%
Within the fifth through eighth week after semester begins	25%
After the eighth week of the semester	No refund

Completion of even one course in a session will make a student ineligible for withdrawal from the University for that semester.

Refer to the University Calendar and course schedule for add/drop and withdrawal dates. Course schedules may be obtained at www.calbaptist.edu/schedules.

Online and Professional Studies

Tuition

Withdrawal from a Course

Within add/drop period	A student may drop from a course and receive a full credit of tuition. No mark will appear on the transcript and no charge is incurred.
Within withdrawal period	A student may withdraw from a course. However, there will be no credit of tuition, and a "W" will appear on the transcript.

Withdrawal from the University (OPS 8-week courses)

A student withdrawing from the University during the semester may receive a credit on tuition (room and board not included) according to the following schedule:

Within add/drop period	100%
After add/drop period	No refund

Completion of even one course in a semester will make a student ineligible for withdrawal from the University for that semester.

Refer to the University Calendar and course schedule for add/drop and withdrawal dates. Course schedules may be obtained at www.calbaptist.edu/schedules.

Room and Board

These charges may be refunded or credited on a prorated basis upon approval of a written appeal. Appeals must indicate extenuating circumstances and be submitted to the Residence Life Office and/or University Card Services Office.

Other Policies

Repayment of Financial Aid

See "Withdrawal from the University" under Financial Aid for a complete discussion.

Academic Information

- Graduation Requirements
- Academic Policies
- Attendance and Withdrawal Policies
- Other Academic Information

Graduation Requirements

Graduation Under a Particular Catalog

Students must adhere to graduation requirements listed in the catalog in effect at the time of enrollment into the University. From an academic perspective, a student may choose to use any catalog subsequent to the catalog in effect at the time of enrollment into the University, provided the catalog chosen is not expired. The graduation requirements under student's chosen catalog remain in effect for the student until degree completion or catalog expiration at the end of six years from the catalog's initial publication, whichever comes first. All students re-admitted to programs at California Baptist University after officially or unofficially withdrawing, or any lapse of enrollment of more than one semester, will be placed under the catalog current at the time of re-admission and will be subject to the degree requirements outlined in that catalog. The University is not responsible for providing courses or programs which have been discontinued.

At the University's discretion, policies, tuition and fees, and other information may change annually and will apply to all students. Updates regarding current policies, tuition and fees, and other information are available from Academic Advising, Office of the University Registrar, Student Accounts, Student Services, and other University offices.

Graduation Check List (Bachelors)

Students should review their InsideCBU degree guide on a regular basis to evaluate progress toward graduation. To be considered for graduation, students must:

- Complete all academic requirements for the major, minor, and/or concentration, consistent with the catalog under which student enrolled at the University or subsequently selected
- Complete at least 124 semester units of credit, at least 39 of which must be upper division (300 level and 400 level courses)
- Complete at least 36 units at California Baptist University, at least 30 of which must be upper division (300 level and 400 level courses)
- Earn a cumulative grade point average of at least 2.0 overall with no grade below C- in the major field of study
- Complete all general education requirements
- Complete and submit a graduation application for planned graduation date
- Satisfy all financial obligations to the University
- Be in good academic standing (not suspended or academically disqualified) at the time of completion

Approval for Graduation

Students should submit an application for graduation upon successful completion of ninety (90) or more earned units. Once the application is submitted, the University Registrar will complete a degree evaluation and audit, verifying the student's eligibility to graduate, which qualifies the student to participate in commencement ceremonies. To avoid a Late Graduation Application fee, Graduation Applications must be submitted by the application deadline. Students submitting applications after the degree posting date will be required to apply for the next eligible degree date. Student's inability to complete degree requirements by the designated degree posting date may require re-application and an additional fee.

Space within each commencement exercise is limited. Students submitting a Late Graduation Application may participate in the immediate commencement on a space availability basis. However, although student's degree will post upon completion of degree requirements, the student may be deferred to the subsequent commencement ceremony.

Graduation Honors

Honors are awarded to baccalaureate degree students according to the following cumulative grade point average: Cum Laude, 3.50; Magna Cum Laude, 3.70; Summa Cum Laude, 3.90. Post-baccalaureate students (Second Major/Second Degree) are not eligible for graduation honors.

Honors are awarded to associate degree students according to the following cumulative grade point average: Honors, 3.50; High Honors, 3.70; Highest Honors, 3.9. To be eligible for graduation honors, associate degree students must have completed at least 30 units of coursework at California Baptist University of which 18 units or more must be letter grades.

Honors announced at the commencement ceremony represent the cumulative grade point average at the completion of the semester prior to the semester of the degree posting. Degrees and honors awarded in the ceremony are conditional upon completion of all course requirements in accordance with university policies.

Degree Posting Dates

The University posts degrees three times each year, regardless of the specific date all work is completed. All degree requirements must be met prior to the posting date. The three approximate posting dates are at the end of the regular fall semester (last day in December), the end of the regular spring semester (first Friday in May), and the end of the regular summer semester (last day in August). Degrees completed between posting dates will be posted at the next scheduled date.

Once the degree is posted, no changes will be made to the transcript.

English Writing Proficiency

All students must demonstrate proficiency in writing standard English. They may do so by earning at least a C- (or demonstrating comparable writing competence) in both ENG 113 - Composition and ENG 123 - Intermediate Composition (or ENG 113E and 123E). Students are placed in composition courses based on SAT/ACT/CLT scores or transfer coursework. Students wishing to challenge their placement may take an English placement exam one time prior to the last day to add a course in their first semester of enrollment at CBU. Students are required to enroll in the composition requirements until successfully completed. No student is eligible to graduate unless the Office of the University Registrar's official records show the English proficiency requirements have been met.

Requirement for Units Completed at California Baptist University

Students seeking a bachelor's degree are required to complete 36 units at California Baptist University, of which at least 30 units must be taken at the upper division level (300 level and 400 level courses). Students seeking an associate degree are required to complete 30 units at California Baptist University.

General Education

The General Education curriculum consists of 40-55 units of coursework designed to provide the student with a strong and diverse academic preparation. In keeping with the ideal of a liberal arts education, the general education curriculum provides students with a broad exposure to the world of ideas and the arts to secure a foundation for students to successfully move into their major of study. In addition, a decidedly Christian perspective is integrated into the requirements and afford the student an opportunity to develop a Christian worldview.

Majors and Minors

When completing a major and minor, twenty-four (24) units must be unique to the major, of which at least eighteen (18) must be upper division. Nine (9) upper division units must be unique to the minor. Coursework for credit toward a major, minor, or concentration must be passed with a minimum grade of C- and an overall average in the major or minor of 2.0 or higher. Certain disciplines may also require a minimum grade of C (2.0) in the lower-division prerequisites. Science courses with virtual labs may not meet major requirements.

Upper Division

Students must complete a minimum of 39 units of upper division coursework for graduation of which at least 30 units must be completed at California Baptist University. Upper division requirements can only be fulfilled with courses at the 300 and 400 (Junior and Senior) level. Lower division units cannot be used to fulfill upper division requirements. Upper division requirements for which a student receives an academic variance must be replaced by upper division electives. Students seeking substitutions and exemptions must submit an Academic Variance Form for approval.

Double Major

Students who wish to concurrently complete two majors may do so by meeting the following conditions:

1. Students complete all of the required courses listed in the catalog for both majors;
2. Not more than four (4) upper division courses may be common to both majors; and
3. Twenty-four (24) units must be unique to each major, of which at least eighteen (18) units must be upper division.

Second Major

Students who previously earned a baccalaureate degree at another institution and wish to complete an additional major at California Baptist University must complete all requirements for the major as listed in the catalog current at the time of enrollment into the University. The student must complete the regular graduation application process. Students completing a second major will receive a certificate of completion. No certificate is granted for an additional minor.

Additional Major or Minor

Students who previously earned a baccalaureate degree at California Baptist University may complete an additional major or minor by completing all requirements for the major or minor, as listed in the catalog current at the time of readmission to the University. For an additional major, a minimum of twenty-four (24) units must be unique to the major and at least eighteen (18) units must be upper division. Nine (9) upper division units must be unique to the minor. The student must complete the graduation re-application process. Students completing an additional major will receive a certificate of completion. No certificate is granted for an additional minor.

Second Degree

Students seeking a second baccalaureate degree must complete a minimum of thirty (30) distinct units in a second area of major studies. Twenty-four (24) of these units must be at the upper division level (300 level and 400 level courses). A minimum of 154 total units are required for graduation with a second degree. All general education (if different from first degree), prerequisites, supporting courses, and departmental requirements for each major and degree, including units completed at California Baptist University, must be completed.

Electives

An elective course is one which a student takes because of personal interest and is used to fulfill overall degree requirements. Electives may be taken from the regular University courses offered in each department. Students should plan carefully and complete prescribed coursework first to avoid a scenario in which more than 124 semester units are necessary in order to graduate.

Academic Policies

Transfer Restrictions

A maximum of 100 semester units may be accepted in transfer toward fulfilling bachelor degree requirements. Within these 100 units, no more than thirty (30) upper division units may be transferred and no more than ninety (90) lower division units may be transferred. A maximum of thirty (30) semester units is allowable from examinations (AP, CLEP, DANTES, IB). A maximum of eighteen (18) units may be accepted in transfer at the lower division level for college transcript completion of a Basic Peace Officer Standards Training (POST) certificate. A maximum of 45 semester units may be accepted in transfer toward fulfilling associate degree requirements.

The University will evaluate previous college work to determine its relationship to the requirements of California Baptist University. Only coursework completed with a grade of C- or better will be accepted in transfer. Lower division units and units from institutions that do not offer a baccalaureate degree will not be accepted for upper division credit. California Baptist University does not accept transfer work that was not designated as baccalaureate degree-applicable by the issuing institution.

All coursework completed at other institutions will be computed into the California Baptist University cumulative grade point average regardless of course transferability.

Advanced Placement Credit

Students who score three (3) or higher on an Advanced Placement (AP) exam will receive three units of lower division credit for the equivalent course. For the most current AP score information contact the Office of the University Registrar or visit InsideCBU. More information about the AP Program is available on the College Board website at www.apcentral.collegeboard.com.

College Level Examination Program (CLEP) and DSST

Students wishing to receive credit for CLEP or DANTES Single Subject Tests (DSST) must provide to the University an official transcript issued by the College Board or by DSST. It is the student's responsibility to seek clarification of degree requirements before taking an examination. Examinations may not be repeated within six months of the testing date. Additional information about acceptable CLEP and DSST exams and scores is available on InsideCBU.

For the most current CLEP score information, contact the Office of the University Registrar or visit InsideCBU. Check the CLEP website at www.collegeboard.com/clep for testing locations.

Enrollment at Other Institutions

In order to ensure that coursework is transferable to California Baptist University, enrolled California Baptist University students who wish to complete coursework at other institutions and apply this work toward degree requirements at California Baptist University should receive prior approval from the Office of the University Registrar. Coursework completed at another institution without securing California Baptist University's prior approval for the course(s) may not be accepted as transferable. Additional information and appropriate forms are available on InsideCBU.

Credit Hour

California Baptist University defines a credit hour as a minimum of 45 hours of engaged learning time over the duration of a term. This engaged learning time may be in face-to-face meetings, in a prescribed lab or internship/practicum setting, in synchronous or asynchronous online learning activities, hybrid courses, or in independent reading, research, or writing activities.

Course Load

The standard academic load for undergraduate students is 12-18 units. A student may be approved to register for more than eighteen (18) units if the student has 1) a 3.0 cumulative GPA, 2) a minimum 3.0 California Baptist University session GPA in the preceding semester, 3) no outstanding incomplete course work, and 4) is in good academic standing. Permission for overload is granted on a semester-by-semester basis.

Classification of Students

At the beginning of each semester all students are officially classified in the following manner:

Freshman	Any student who has less than 30 semester units
Sophomore	Any regular student who has earned 30-59 semester units
Junior	Any regular student who has earned 60-89 semester units
Senior	Any regular student who has earned 90 or more semester units
Graduate	Any regular student who has completed a bachelor's degree and is studying in a post-baccalaureate credential or certificate program, a master's program, or a doctoral program.

Scholastic Regulations

An undergraduate student must maintain scholastic standards to remain enrolled at California Baptist University. A student must earn a minimum cumulative grade point average (GPA) of 2.0 to graduate.

Academic Probation

A student who does not maintain a minimum cumulative GPA of 2.0 or who does not earn a minimum semester GPA of 1.7 will be placed on Academic Probation. A student on Academic Probation will be required to meet with an Academic Advisor to adjust their schedule and develop a course plan. In addition, the student may be required to participate in Academic Course on Excellence (GST 061). A student who earns a minimum cumulative GPA of 2.0 and a minimum semester GPA of 1.7 during the probationary semester will no longer be on Academic Probation. A student on Academic Probation who does not achieve a minimum cumulative GPA of 2.0 in the probationary semester but does earn a 2.3 semester GPA will continue on Academic Probation.

Academic Suspension

A student who fails to earn a 2.0 cumulative GPA and a 1.7 semester GPA OR a 2.3 semester GPA during the probationary semester will be placed on Academic Suspension. Additionally, a student who fails all academic courses during any given semester will immediately be placed on Academic Suspension. To continue enrollment at California Baptist University, a student on Academic Suspension must appeal to and be approved by the Admissions and Retention Committee. If approved to continue, a student will be placed on Academic Probation, may be required to participate in Academic Course on Excellence (GST 061), and will be held to the restrictions and requirements of the Academic Probation status.

Academic Disqualification

A student who is suspended for a second consecutive semester will be academically disqualified and may not enroll at California Baptist University for at least one semester. To regain academic qualification, a student must demonstrate the educational skills and motivation necessary to be academically successful. Requirements to demonstrate the necessary skills and motivation will be outlined in each student's appeal decision letter and may include completing 9-12 community college units of academic coursework in a single semester, earning a 2.3 semester grade point average or better. A student who has demonstrated academic success may then appeal to the Admissions and Retention Committee for readmission to California Baptist University under Academic Probation status. A student may need to readmit to the University prior to enrolling (see Satisfactory Academic Progress in the Financial Aid section and Readmit in the Traditional On-Campus Admissions section).

Following the close of each semester, a letter of notification will be sent to each student who has a change in academic status. All appeals related to the above regulations should be directed to the Chair of the Admissions and Retention Committee in compliance with dates detailed in the letter.

Student Grievances

A student wishing to express concerns or grievances about academic matters involving coursework or interactions with instructors should first contact the instructor involved so that there is opportunity for each to address the specific student concerns. If the student feels unable to approach the instructor directly or does not believe the issue has been fully resolved with the instructor, the student should contact the Department Chair or Dean of the School or College having oversight of that course. If issues remain unresolved at these levels, the final academic point of contact is dependent on the California Baptist University division in which the student is enrolled.

- Traditional students should appeal to the Dean of Student Success
- Online and Professional Studies students should appeal to the Associate Vice President of Academics

For disputes involving conduct prohibited under the University's Title IX Policy, students, staff, and faculty are expected to promptly notify the Title IX Coordinator for proceedings consistent with the Title IX Policy.

Academic Dishonesty

Please refer to the California Baptist University Student Handbook, Honor Code.

Credit/No Credit Courses

A student may take up to twelve (12) units of coursework on a "credit/no credit" basis in lieu of a letter grade. ENG 113, 113E, 123, and 123E (English Composition) may not be taken on a "credit/no credit" basis, and not more than two (2) courses in general education may be taken on a "credit/no credit" basis.

Only one course may be taken per semester on a "credit/no credit" basis. All courses in the student's major or minor field must be taken for a letter grade.

Students must choose this grading option during the Add/Drop Period. In order to receive credit for work completed on a "credit/no credit" basis, the work must be equivalent to a C- grade or better. The grade of "credit" does not affect the GPA calculations; a grade of "no credit" has the same effect on the GPA calculation as a failing grade.

Pass/Fail

Some courses are graded on a "pass/fail" basis. The grade of "pass" does not affect the GPA calculations; a grade of "fail" has the same effect on the GPA calculation as a failing grade.

Incomplete Grade Policy

Students may only request an Incomplete from the instructor of the course in cases of extreme and unforeseen emergencies. Students are responsible to request the Incomplete prior to the end of the semester in which the student is taking the course. If the Incomplete grade is not changed to a passing grade within six weeks of the end of the session, term, or semester, the grade automatically becomes an F and credit for the course may be obtained only by repeating the course. Students who receive an Incomplete will not be eligible for semester honors (Provost's or President's Honor Roll). An Incomplete grade may adversely affect students receiving financial aid.

Satisfactory Progress Grade Policy

Students may only request a grade of Satisfactory Progress (SP) for courses that include a requirement of fieldwork, student teaching, and/or observation hours for completion of the course and that requirement cannot be completed within the semester for which the student was enrolled into the course. Students may only petition faculty members for

a SP grade when the student is unable to complete the fieldwork during the semester due to conditions outside of the student's control. If a grade of SP is not raised to a passing grade within twelve (12) months of the issuance of the SP grade, the grade automatically becomes an F and credit for the course may be obtained only by repeating the course. An SP grade may not be used to extend the six-week time frame of an Incomplete Grade.

Examinations/Make-up Tests

In the case of serious illness or unforeseen emergency, the student is responsible to communicate with the instructor of the course in which the test was missed as soon as practicable and arrange for a make-up test with the instructor. Make-up tests are at the discretion of the individual instructor.

Repeating Courses for Grade Replacement

For grade replacement to apply, the course must have been originally taken at California Baptist University and repeated at California Baptist University. Courses that may be repeated multiple times for credit are not eligible for grade replacement. Tuition will be charged for the repeated units. (See Financial Aid for information regarding use of student aid to pay for repeated courses.) Students may not repeat a course once their degree has posted.

Courses may only be repeated one time for grade replacement. The second grade earned will be used in GPA calculations regardless of which grade is higher. If a grade of C- or higher is not earned when the course is repeated, the student may repeat the course again; however, subsequent grades will not replace the grade from the first repetition. Subsequent grades will be used in GPA calculations.

Grade Changes

Students who believe a grade has been recorded in error have the responsibility to initiate a grade change request with the instructor within 30 days of the final grade being recorded. Requests may be made for grade changes based on computation and recording errors. Otherwise, grades are final at the completion of the course. No grade changes will be permitted once the degree has been posted.

Grade Appeals

Any appeal for a grade change must be accompanied by appropriate documentation to demonstrate the grade was incorrectly recorded or determined. The grade appeal must include documentation that one or more of the following occurred: (1) The instructor made an error in calculating the final grade; (2) The final grade was based on criteria or standards at variance with the course syllabus; (3) The final grade was based on factors other than student achievement or performance. Failure to address one or more of these three reasons is a basis for rejection of that appeal. Students must recognize that they bear the burden of proof in the grade appeal process and that a grade appeal will not be successful without appropriate documentation.

Students wishing to appeal a grade should follow the below regular order of contacts and timelines.

Instructor Appeal

An initial grade appeal should be made directly to the instructor. The student is encouraged to submit a written statement to the instructor clearly specifying the grounds upon which the student disputes the instructor's academic decision.

- Traditional Graduate/Undergraduate Students:
    - Grade appeals for Fall semester courses must be filed by February 1 of the Spring semester immediately following the completion of the disputed course.
    - Grade appeals for Spring or Summer semester courses must be filed by October 1 of the Fall semester immediately following the completion of the disputed course.
- Online and Professional Studies Students:
    - Grade appeals must be submitted to the instructor within 30 days of the final grade being recorded.

Department Chair or Dean Appeal

If the student is dissatisfied with the instructor's response, or the instructor does not respond to a grade appeal within 30 days, the student may then appeal the instructor's academic decision to the appropriate Department Chair or Dean of the School or College having oversight of that respective instructor and course. The appeal should be submitted within 30 days of instructor decision or non-response.

Dean of Student Success/Associate Vice President of Academics

If the student is dissatisfied with the decision rendered by the Department Chair or Dean of the School or College, the student may submit an appeal within 30 days of the previous decision for possible mediation. Appeals should be submitted respective to the University program in which the student is enrolled (Traditional or Online and Professional Studies).

- Traditional students should appeal to the Dean of Student Success
- Online and Professional Studies students should appeal to the Associate Vice President of Academics

Upon receipt of the appeal, copies of the student's supporting evidence associated with the appeal will be obtained and an attempt will be made to mediate a resolution between the student, the faculty, and the Department Chair or Dean.

Student Appeals Committee

If the appeal is unable to be resolved through mediation within 30 days, the student may request the appeal be submitted to the Student Appeals Committee. The student's request must be in writing and specify the student's rationale for contesting the decision rendered by the Department Chair or Dean, as well as include all supporting evidence. Upon submission of a timely request, the Student Appeals Committee will convene and render a decision within 15 days.

The Student Appeals Committee will convene and review all written documentation and evidence. The committee will receive the responses from previous appeals and have the discretion to request additional information prior to the committee meeting from the student, instructor, chair, or dean. The committee will make its recommendation based solely on the documentation submitted. Students are not permitted to attend the meeting or present before the committee.

Vice President of Academic Affairs and Provost

Following the Student Appeals Committee meeting, the committee will make a formal recommendation to the Vice President of Academic Affairs and Provost regarding a resolution. Within 15 days of receiving the recommendation, the Vice President may (1) accept the recommendation, (2) reject the recommendation and issue an independent decision, or (3) request the committee conduct additional investigation and re-review the initial recommendation.

The Vice President/Provost's decision is final and not subject to further appeal.

Quality of work in a course is indicated as follows:

Grade of A	Indicates the highest quality of work and is reserved for outstanding achievement
Grade of B	Indicates superior work done in a sustained and intelligent manner
Grade of C	Indicates average university-level work satisfactorily performed
Grade of D	Indicates the lowest passing grade
Grade of F	Indicates a failing grade
Grade of CF	Indicates a failing chapel grade
Grade of P	Indicates a passing grade

Grade of CP	Indicates a passing chapel grade
Grade of CR	Indicates work attempted under the "Credit/No Credit" grading option and was completed at the C- level or better
Grade of NC	Indicates work attempted under the "Credit/No Credit" grading option that was completed below the C- level
Grade of W	Indicates a withdrawal from the class
Grade of I	Indicates incomplete work
Grade of AU	Indicates the course was audited and not taken for academic credit
Grade of SP	Indicates satisfactory progress in an ongoing course. (Thesis, Project, Student Teaching)
Grade of IP	Indicates the course is in progress
Grade of NR	Indicates no grade has been recorded

Course Grade	Quality Points	Course Grade	Quality Points
A	4.0	D-	0.7
A-	3.7	F	0.0
B+	3.3	CF (Chapel Fail)	0.0
B	3.0	P (Pass)	0.0
B-	2.7	CP (Chapel Pass)	0.0
C+	2.3	CR (Credit)	0.0
C	2.0	NC (No Credit)	0.0
C-	1.7	W (Withdrawal)	0.0
D+	1.3	I (Incomplete)	0.0
D	1.0	SP (Satisfactory Progress)	0.0

Semester Honors

Each semester the University awards the President's Honor Roll and the Provost's Honor Roll to students who achieve academic excellence. In order to qualify for the President's Honor Roll a student must earn a session GPA of 4.0 while taking a minimum of 12 units of graded coursework (not P/F, CR/NC, AU, etc.) and maintaining satisfactory scholastic standing. In order to qualify for the Provost's Honor Roll a student must earn a session GPA of at least 3.6 while taking a minimum of 12 units of graded coursework (not P/F, CR/NC, AU, etc.) and maintaining satisfactory scholastic standing. All courses taken during a given semester must be successfully completed; any failing grade (including chapel fail and NC) or Incomplete will disqualify the student for semester honors. Post-baccalaureate students are not eligible for semester honors. Students will not be eligible for the Provost's or President's Honor Roll if they elect to Petition for an Incomplete. Semester honors will be posted on the transcript.

Grade Reports

Grade reports are available to students through InsideCBU upon the completion of the semester. Students may view grades by accessing their Degree Guide in InsideCBU. The University does not release any grade information to any person other than the requesting student without the written permission of the student.

Change of Personal Information

Students are expected to file a Student Information Change form with the Office of the University Registrar promptly upon a change of any personal information, including but not limited to student's address, telephone number, or name. If a student does not receive University notices because of an incorrect or outdated address, the student will still be held responsible for the information provided. Students can access the Student Information Change Form on InsideCBU.

Classification and Numbering of Courses

The first digit of the course number indicates the year level of the course: 100-first undergraduate year; 200-second undergraduate year; 300-third undergraduate year; 400-fourth undergraduate year; 500/600-master's level; 700-doctoral level.

University level courses without a year designation are designated by 000.

Course Cancellations and Format Changes

California Baptist University expects to deliver instruction to its students through its traditional in-person and online formats. By attending the University, students acknowledge this expectation and understand that the University may be compelled to modify course instruction formats due to circumstances or events beyond the University's reasonable control such as acts of God, acts of government, war, social unrest, and accidents. As such, students attending the University assume the risk that circumstances may arise that mandate the closure of the campus or place restrictions upon the University's delivery of instruction. Further, all courses at California Baptist University are subject to cancellation, meeting day and time changes, or format changes for reasons such as low enrollment, curriculum updates, or staffing. Students will be notified of course cancellations and schedule changes via their California Baptist University LancerMail account.

Study Abroad

Students may receive academic credit for overseas study tours offered by California Baptist University or authorized Study Abroad programs. A maximum of 18 units per semester may be earned for Study Abroad. Non-academic tours will not be considered for academic credit. All students wishing to receive Study Abroad credit must attend a Study Abroad Information Session and process their Petition to Study Abroad prior to the trip's departure. Study Abroad petitions are available from the Director of Academic Engagements. Students will be assessed a Study Abroad per unit tuition rate for tours offered through California Baptist University. Student's participating in other authorized study abroad programs will be assessed for the cost of the program.

Requirements to participate in Study Abroad include:

- First-time freshmen must have completed two semesters of course work at California Baptist University
- Transfer students must have completed one semester of course work at California Baptist University
- Students must be in good standing with Financial Aid, Student Accounts, and Student Services
- Students must meet any minimum GPA requirements established by California Baptist University's study abroad partners

Directed Study and Independent Study

Directed Study will be limited to those courses which are listed in the catalog as part of the University's regular curriculum. Independent Study is limited to original coursework not included in the University's regular curriculum. Approval for the arrangement must include the faculty member, Dean/Department Chair, and University Registrar. In

addition to regular tuition, a per credit unit Directed or Independent Study fee will be assessed. Students begin the process by completing the form online. Academic Advising, in collaboration with the appropriate faculty member, complete and submit the form to the Dean/Department Chair and University Registrar for approval.

Following are California Baptist University's Directed and Independent Study guidelines:

- Junior or Senior academic standing
- 3.0 or better grade point average
- Limit of four (4) units of directed study or independent study in any given semester
- A maximum of nine (9) units of directed study or independent study may be applied toward degree requirements

Internship

An internship is a form of experiential learning that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Internships provide students the opportunity to gain valuable applied experience and make connections in professional fields they are considering for career paths while giving employers the opportunity to guide and evaluate talent.

Students may enroll in an internship for academic credit at the upper division level with approval and signatures from the faculty member, Dean/Department Chair, and University Registrar. Students are responsible for locating their own internship experience prior to enrollment and are encouraged to utilize the Career Services office for assistance in the process. Minimum enrollment requirements include a 2.0 cumulative GPA and sophomore status.

Internships must be completed within the semester in which both the enrollment and the internship experience occur. Retroactive credit may not be granted for internships previously completed. For current Internship enrollment information, please see InsideCBU Internships.

Challenging a Course for Credit or Exemption

A student wishing to challenge a course by examination or certification should consult the Office of the University Registrar for information. Not all courses offered at California Baptist University may be challenged by exam or certification, and determinations will be made by the appropriate academic dean or department chair.

Students wishing only to be exempt from a course requirement, but not wishing to receive university credit, will be billed the exemption by exam or exemption by certification fee, and no credit will be earned. The exemption by exam fee will be assessed whether or not the exam is successfully passed.

Students who wish to receive credit for the challenged course and who successfully pass the exam will be charged the appropriate tuition and a grade of "Credit" will appear on the transcript. If the exam is not passed, the student will only be charged the exemption by exam fee and nothing will appear on the transcript.

Courses previously attempted at California Baptist University or another institution may not be challenged. Challenge exams may be attempted only once per course and should be completed prior to the add/drop dates. Credit and tuition costs for coursework completed by exam will appear in the semester that the exam is passed. Students may not exceed 30 units of degree credit by challenge exams including AP, CLEP, and DSST, IB, and California Baptist University exams.

Auditing a Course

Students do not earn academic credit for audited courses. Audited courses cannot be applied toward degree requirements. Audited courses appear on the student's transcript and are indicated by an AU in lieu of a credit-bearing grade.

Students may only register to audit a course during the first two weeks of the semester, pending available space in the desired course. Regular withdrawal policies apply to audited coursework.

Post Baccalaureate Credit

Post baccalaureate credit for a course taken as an undergraduate student must be requested prior to the posting of the bachelor's degree. The following criteria must be met in order to grant credit:

- Course(s) were not used to complete a bachelor's degree, second major, minor, emphasis, or concentration
- Student was classified as a Senior (90.0+ units) when courses were completed

Privacy of Student Records

In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), a student's confidential academic record is available for inspection by the student. See the Office of the University Registrar for further information regarding academic records.

FERPA permits the University to disclose certain information ("Directory Information") without the Student's consent. All other information, including grades, class schedules, tuition charges and fees, grade point average, etc. is confidential and the access is restricted to those persons or agencies defined in FERPA.

Please see Student Handbook for additional information.

Attendance and Withdrawal Policies

Completion of the registration process constitutes a contract and obligates the student for full payment. The student must complete the appropriate process to add, drop, or withdraw from a course. Students may seek assistance with the registration process from the Academic Advising office. Students should consult the University Calendar and Academic Advising for course and semester add, drop, and withdraw dates.

Class attendance is of paramount importance, and excessive absences may negatively affect the final grade. The individual instructor defines, in the course syllabus, the grading attendance policies for each class.

Please visit InsideCBU Attendance and Withdraw Policies for more specifics, as well as the Petition to Withdraw form.

Adding a Course

During the initial Add period a student may add a course to his or her schedule of classes. Adding a course could result in the increase of student account tuition and fee charges.

Dropping a Course

During the initial Drop period a student may drop a course and receive a full credit of tuition, if applicable. No grade will appear on the transcript. A student may not drop a class merely by ceasing to attend. Dropping a class could result in the reduction of already awarded financial aid and an increase in the student account balance.

Withdrawal from a Course

Should a student officially withdraw from one or more courses during the Withdraw period, a grade of W will appear on the transcript for each course. Courses from which a student officially withdraws will not affect semester tuition unless the student withdraws from all registered courses, at which point it may affect semester tuition (See Withdrawal from the University and Semester or Session). After the Withdraw period no withdrawal from a course will be permitted. Students who cease attending after the withdraw period will receive a calculated grade based on the course syllabus requirements for that course.

A student who never attends or stops attending a course for which he or she is officially registered, without following the accepted procedures, will receive a grade in that course consistent with the requirements of the course syllabus.

A student who wishes to initiate withdrawal from a course after the Withdraw period may do so by filing an appeal to the Office of Student Success (for traditional students) or One-Stop Advisor (for OPS students). Approval for a late withdrawal will be granted only in extreme cases where extenuating circumstances are evident and can be substantiated. No financial adjustments are made to the student's account. Failing or performing poorly in a class, or dissatisfaction with the subject matter, class, or instructor are not defined as acceptable serious and compelling reasons for late withdrawal.

Withdrawal from the University and Semester or Session

Students requesting official withdrawal from the Semester or Session must complete a Petition to Withdraw form and follow the process defined within that form. Official withdrawal from the Semester or Session, if completed prior to the last day of the Semester or Session, will result in all courses reflecting grades of W for that enrollment period. If student does not complete the requirements defined in the Petition to Withdraw form and ceases to attend all courses in session at that time, grades for in-progress courses will be issued consistent with each course's syllabus.

Students requesting official withdrawal from the University must complete a Petition to Withdraw form and follow the process defined within that form.

Ceasing to attend courses does not constitute an official withdrawal from a course or from the University. However, ceasing to attend all courses may result in Return to Title IV financial aid processing, as required per federal regulations.

Refer to the Financial Aid and Student Accounts sections in this catalog for additional information regarding the effects of completing an official withdrawal and the effects of ceasing to attend without providing official notification to the University according to the official withdrawal process.

Leave of Absence

A student that needs to take a leave of absence with plans to return to the University should complete and submit a Petition for Leave of Absence. If approved, a student may leave the University for up to one semester and return at the conclusion of the leave without completing the readmit process. Students will be expected to fulfill the graduation requirements in effect at the date of their original enrollment into the University. Students who do not return from a leave of absence as scheduled will be considered withdrawn from the University and will need to complete the readmit process should they desire to return.

Administrative Discretion

The University reserves the right to disqualify, discontinue, exclude, or involuntarily withdraw any student from the University at the discretion of the Provost, the Vice President for Enrollment and Student Services, Dean of Students, or designee.

California Baptist University is concerned about the well-being of all students. Behavior that demonstrates that the student's well-being may be in jeopardy, interferes with the educational efforts of other students, puts fellow students or the institution at risk, or conflicts with California Baptist University's mission to educate all students may result in an administrative withdrawal from the institution.

Other Academic Information

Annie Gabriel Library

The staff, resources, and services of the Annie Gabriel Library enhance the quality of the academic experience available at California Baptist University by supporting the instruction, learning, and research activities of its students and faculty. In addition to the more than 400,000 books (including 280,000 eBooks) in its collection, the library currently provides access to more than 45,000 full-text journal titles through its online databases and subscriptions. Students and faculty can access books, journals, reference resources, videos, and music through the library catalog

(OneSearch Catalog), which is available along with many other resources and services through the library Web page. The Annie Gabriel Library houses computer work stations and provides access to the campus wireless network. It participates in local, regional, and national information networks that increase its resource-offerings to the California Baptist University community through its interlibrary loan programs. It houses special collections and archives devoted to Southern Baptist History, Holocaust Studies, Hymnology, and California Baptist University History.

Office of Student Success

The Office of Student Success (OSS) is a one-stop-shop for a variety of academic needs and resources. Student Success includes CBU's Academic Success Center (ASC), the University Tutoring Center, the University Writing Center, the Disability Services Office, and the Veterans Resource Center.

Disability Services

The Disability Services Office is committed to providing support services to achieve equal access to the education experience. Disability Services (DS) approves and coordinates accommodations and services for Students with documented disabilities to help Students acquire skills essential to achieve academic success. Services may include note taking, extended testing time, a quiet testing environment, academic support, and auxiliary aids, i.e., Interpreter, readers/scribes for exams, and textbooks in alternate format.

University Tutoring Center

The University Tutoring Center (UTC) provides additional instruction and academic resources in order to help CBU students succeed in their coursework.

University Writing Center

Writing Center coaches are trained to cultivate purpose-driven writers, communicators, and influencers. They are here to help students develop the necessary process and strategies to become more rhetorical writers, who communicate clearly and persuasively. While they are not editors, the coaches provide useful resources and help students to recognize areas for improvement.

Veterans Resource Center

Strategically located next to the US Army Reserve Officer Training Corps (ROTC) office and Office of Student Accounts, the Veterans Resource Center is co-located with the Office of Student Success to provide ready access to tutoring, testing, and Disability Services. The Veterans Resource Center (VRC) is committed to providing a supportive environment and a committed campus culture to all Student veterans and their dependents. The VRC is devoted to assisting veterans with their transition to post-secondary education. Using veteran educational benefits, VRC staff will process course certification to the Department of Veterans Affairs in a timely and efficient manner. The VRC is dedicated to providing Student veterans/dependents a place to study, relax, fellowship with other veterans, increase peer mentorship, and offer computer access with complimentary printing.

The VRC maintains records for each identified veteran. A record of transfer work is kept on file and the Veterans Affairs (VA) is notified of the transfer work accepted for each veteran.

California Baptist University (CBU) is a participating Concurrent Admissions Program (ConAp) institution, and military credit or experience may provide some equivalency credit in accordance with the American Council on Education (ACE) guidelines.

At the beginning of their first term at CBU, new student veterans and dependents must provide a written request to the CBU School Certifying Official (SCO) to initiate reporting of verification of enrollment and academic progress to the appropriate VA regional office. Continuing students are not required to submit written request to the SCO. Any changes in enrollment or attendance should be reported to the SCO. Satisfactory progress must be maintained as specified in the Scholastic Regulations Section under Academic Policies.

Student veterans/dependents requesting their classes be certified under Chapter 33 (Post 9/11 GI Bill®) are required to submit a certificate of eligibility from the VA to the SCO. Student veterans under Chapter 31 Veterans Readiness and Employment (VR&E) case manager should forward a Purchase Order Authorization via Tungsten network directly to the SCO. For a period of ninety (90) days from the beginning of each term, students under Chapters 31 or 33 will not incur any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or be required to secure additional financial resources to meet the student's financial obligation which results from delayed VA disbursement.

Student veterans and dependents receiving educational benefits under Chapters 30, 31, 33, 35, and 1606 are required to submit a Student Statement of Responsibility form every semester if they plan to use VA educational benefits at CBU. Students can fill out the form electronically located in the CBU Veterans page, visit www.calbaptist.edu/veterans. Once submitted, the form will go to the veteran's email address. Student veterans and dependents are encouraged to call the VRC for confirmation of receipt.

GI Bill® is a registered trademark of the US Department of Veterans Affairs (VA). For more information about VA educational benefits, visit www.gibill.va.gov.

Military Tuition Assistance

CBU Division of Online and Professional Studies is proud to participate in the Department of Defense Military Tuition Assistance (TA) benefit program available to current service members of all branches of the Armed Forces. For additional information, go to https://www.cbuonline.edu/students/militarytuitionassistance.

2021/22 Summary of Information for Veterans completing B.S. Aviation Flight at California Baptist University (CBU)

INSTRUCTIONAL FACILITIES

A. California Baptist University employs all faculty and flight instructors, and owns all aircraft/simulators. CBU is certified by the FAA under 14 Code of Federal Regulations Part 141 meeting all requirements for instrument and commercial ground/flight training thus meeting all R-ATP requirements.

B. Formal ground school is conducted at California Baptist University Airport Campus on KRAL.

C. Aircraft Inventory

Make	Model	N-Number	Horse Power	Single/Multi Engine	Leased/Owned
Cessna	150L	N935CB	100	Single	Owned
Cessna	172M	N944CB	150	Single	Owned
Piper	PA28-181	N207CB	180	Single	Owned
Piper	PA28-181	N233CB	180	Single	Owned
Piper	PA28-181	N255CB	180	Single	Owned
Piper	PA28-181	N246CB	180	Single	Owned
Piper	PA28-181	N259CB	180	Single	Owned
Piper	PA28-181	N262CB	180	Single	Owned
Piper	PA28-181	N272CB	180	Single	Owned

Piper	PA28-181	N291CB	180	Single	Owned
Piper	PA28-181	N296CB	180	Single	Owned
Piper	PA28R	N373CB	200	Single	Owned
Piper	PA28R	N374CB	200	Single	Owned
Piper	PA44	N438CB	180	Multi	Owned
Piper	PA44	N486CB	180	Multi	Owned
CR12Pro	AATD		n/a	n/a	Owned
DCX Max	AATD		n/a	n/a	Owned
Frasca	TruFlight AATD		n/a	PA28 simulator	Owned
Frasca	TruFlight AATD		n/a	PA28 simulator	Owned

NOTE: Any veteran, serviceperson, reservist, or authorized dependent enrolled in a flight course may train only in the aircraft (a/c) approved by the FAA for that course. Hourly rates are shown in the cost breakdown and are based on the aircraft in the horsepower category and syllabus.

TRAINING SYLLABUS

A student at the time of enrollment receives a copy of the FSDO approved Training Course Outline (TCO) as required under FAR 141.55(b). This is available on both TALON/ETA and InsideCBU. Contact the chief flight instructor immediately if you have any questions on how to find the training syllabi.

INSTRUCTIONAL SCHEDULE

The flight schedule follows the institutional calendar of spring/summer/fall semesters. If flight training is not finished by the end of the semester, students may be given a satisfactory progress (SP). Students have the subsequent three semesters to complete all course work. If the course work remains unfinished, a failing grade will replace the SP.

VA EDUCATION BENEFITS FOR ELIGIBLE STUDENTS

Although the term "Veteran" is generally used to describe recipients of VA education benefits, students who qualify to receive education benefits for flight programs could be eligible servicepersons, veterans, reservists, or authorized dependents. Persons eligible to receive benefits under the Dependents Educational Assistance program (DEA, or Chapter 35) are not eligible to receive education benefits for any vocational flight program. However, certain dependents eligible under the Transfer of Entitlement (TOE) provision of Chapter 33 could potentially receive benefits for an approved flight program. Benefits for vocational flight training under Part 141 cannot be paid to persons eligible to benefits under the Veterans Retraining Assistance Program (VRAP).

An eligible student may receive education benefits from the U.S. Department of Veterans Affairs (VA) for approved flight training; however, the amount of benefit payable is based on the type of education benefit program the student is qualified to receive. There are several benefit types currently paid by VA:

- Post-9/11 GI Bill (Chapter 33)
- Montgomery GI Bill (MGIB, or Chapter 30)
- Montgomery GI Bill-Selected Reserve (MGIB-SR, or Chapter 1606)

Detailed descriptions & eligibility requirements for each benefit program administered by VA are online at http://www.benefits.va.gov/gibill/.

Education benefits paid under Post 9/11 GI Bill (Chapter 33) for any approved flight training completed by the student are paid directly to the university and not to the student. These are tracked on the flight line in ETA/TALON available to each student to see all charges and current funds available on their account.

The Flight Lab Fees, as seen in Aviation Flight, BS, provides exact lab fees for each course to include aircraft, simulator, instructor, and lab kit costs. Any costs above these are the responsibility of the student.

A. Veteran Benefits

Veteran students are required to meet with the CBU Certifying Official to review flight funding at the beginning of their academic program. Additional flight training above the approved amount is the responsibility of the student. Unused approved funding will be returned to the VA at the end of the term or SP extension.

B. Miscellaneous Information

Aviation Training adheres to the Univesity's policy in regards to Grading, Refunds, Withdrawal, Attendance, and Academic Progress as described within the Academic Policies.

C. NOTE:

All Veteran Students are required to immediately notify the CBU Certifying Official of any changes in schedule, flight training, flight funding or academic progress. The CBU Certifying Official requests approved funds only.

SIMULATOR TRAINING

For VA reporting purposes, the hours of training in flight simulators and flight training devices are dual instruction.

MEDICAL CERTIFICATION

Veterans, servicepersons, reservists, and authorized dependents may receive educational benefits for flight training provided they possess a valid medical certificate for the program for which they are enrolled. VA regulations 38 CFR 21.4235 (a)(2) require a class II or better medical certificate prior to entry in order to receive benefits for flight training programs other than Airline Transport Pilot (ATP). Medical certificates must be kept current while the student is enrolled in the program.

Aviation Flight, BS ACADEMIC PROGRAM

Units covered by VA benefits specifically within the four Aviation Flight BS concentrations are 67 units for Commercial concentration, 59 units for Military concentration, 73 units for Missionary concentration, and 63 units for Unmanned Aerial Systems concentration. 47 units are included within the concentrations as lower and upper division required core courses. The optional portions of the commercial and missionary concentrations titled "Optional Flight Instructor Requirements" in the commercial concentration and "Optional Multi-Engine Commercial Requirements" in the missionary concentration are not covered by VA benefits.

*Under Title 38 section 103 of the Colmery Act, VA Chapter 31/33 recipients are exempt from having to meet all financial clearance requirements and complete full payment with verified funds to cover their flight lab fee prior to receiving clearance to fly.

Other Resources

The OSS also facilitates/coordinates review of Academic Appeals and provides administrative support for the Alpha Chi National Honor Society.

Office of the University Registrar

The Office of the University Registrar maintains the student's official academic record and assists students with transcripts, letter requests, degree and enrollment verifications, and other requests related to the student's enrollment. The Office of the University Registrar also maintains articulation agreements, completes official evaluation of previous

college work, reviews requests for concurrent enrollment transfer approvals, reviews academic variances, processes all applications for graduation, reviews the academic record for final degree completion, and posts completed degrees.

Honors Program

The University Honors Program at California Baptist University offers students from all majors a unique and excellent academic experience. Through a series of seminars totaling 18 units, the program offers students the opportunity to participate in rigorous study, requiring diligence in reading primary sources and writing original essays. These seminars lead students in careful study of and reflection on important themes in (primarily) Western Civilization that are key to understanding contemporary culture. Seminars often focus on ancient classical thought and literature, medieval studies, Russian literature, history of science, the early church in the ancient world, political economy, and the theology and literature of C.S. Lewis and J.R.R. Tolkien. These seminars emphasize a close reading and thorough discussion of classic texts, and are interdisciplinary, integrative, and holistic in vision. Ultimately, the program has been designed to assist students in developing an intellectually informed Christian world view. By understanding the roots and trajectory of contemporary culture, Honors Program graduates will be better prepared to effect change in the culture.

The Honors Program seminars are taught by leading faculty from across the University. Class enrollment is purposely restricted to provide individual attention to the Honors Program student members.

Satisfactory completion of the Honors Program requires (for four-year students) satisfactory completion of 18 units of Honors Program seminars (at least eight (8) units at the upper division level), while maintaining an overall academic GPA of at least 3.5. Transfer students coming to California Baptist University with 60 or more semester units of college credit need only complete 14 units of Honors Program seminars (at least eight (8) units at the upper division level), while maintaining at least a 3.5 overall GPA.

Students who satisfactorily complete the Honors Program are entitled to claim this distinction on their résumés. Their achievement will be recorded on their official California Baptist University transcript and diploma, and will be acknowledged in the Commencement program and ceremony.

A student should seek admission to the University Honors Program prior to or during the freshman year by filing an Honors Program Application and writing sample with the Dean of the College of Arts and Sciences. Admission to the Program requires an application that is separate from (and follows after) the regular California Baptist University admission application, available online. The Honors Program admission committee will review the student's overall academic record for predictors of success in this intensive seminar series. The committee will approve students who write a strong essay and have either have an SAT score of 1290 (ACT 27 or higher) and a cumulative grade point average of 3.5 or higher. The committee may consider students with a test score above 1230 or cumulative grade point average of 3.2, and may request a personal interview as part of the decision process.

For more information contact the College of Arts and Sciences at 951.343.4363, or email honors@calbaptist.edu.

Reserve Officer Training Corps (ROTC)

California Baptist University offers a Military Science and Leadership Army Reserve Officer Training Corps (ROTC) program on campus and an Air Force ROTC program through concurrent enrollment at California State University, San Bernardino. Students may also enroll in ROTC courses at another institution while completing their degree programs at California Baptist University. Representatives from other participating ROTC programs make regular visits to California Baptist University to provide information to prospective students.

Scholarships may be available for books, tuition, and fees associated with various major fields of study. For more information about the Military Science and Leadership Army ROTC Program contact the Assistant Professor of Military Science at 951.343.4773 or e-mail ROTC@calbaptist.edu. For more information about the Air Force ROTC program contact the CSUSB Aerospace Studies Department at 909.880.5440. Students interested in concurrent enrollment should contact the Office of the University Registrar at California Baptist University.

Division of Academic Affairs

Dr. Charles D. Sands
Provost and Vice President for Academic Affairs

Ms. Claudia Valdez
Administrative Assistant
Phone 951.343.4213
FAX 951.343.4572
provostoffice@calbaptist.edu

Academic Affairs Division Contact Personnel

Mr. Mark Roberson
Dean, College of Architecture, Visual Arts, and Design
951.552.8652
maroberson@calbaptist.edu

Dr. Lisa Hernandez
Dean, College of Arts and Sciences
951.343.4767
lhernandez@calbaptist.edu

Dr. Jacqueline Gustafson
Dean, College of Behavioral and Social Sciences
951.343.4487
jgustafson@calbaptist.edu

Dr. Philip Van Haaster
Dean, Gordan and Jill Bourns College of Engineering
951.343.4841
pvanhaaster@calbaptist.edu

Dr. David Pearson
Dean, College of Health Science
951.343.4619
dpearson@calbaptist.edu

Dr. Karen Bradley
Dean, College of Nursing
951.343.4738
kbradley@calbaptist.edu

Dr. Tim Gramling
Dean, Dr. Robert K. Jabs School of Business
951.552.8324
tgramling@calbaptist.edu

Dr. Christopher Morgan
Dean, School of Christian Ministries
951.343.4248
cmorgan@calbaptist.edu

Dr. Robin Duncan
Dean, Dr. Bonnie G. Metcalf School of Education
951.552.8948
rduncan@calbaptist.edu

Dr. Joseph Bolin
Dean, Shelby and Ferne Collinsworth School of Music
951.343.4251
jbolin@calbaptist.edu

Dr. John Shoup
Executive Director
Dr. Paul and Annie Kienel Leadership Institute

Dr. Wayne Fletcher
Associate Provost, Academic Services
951.552.8175
wfletcher@calbaptist.edu

Dr. Tracy Ward
Associate Provost, Administration
951.343.4552
tward@calbaptist.edu

Dr. Elizabeth Morris
Associate Provost, Educational Effectiveness
951.343.4925
emorris@calbaptist.edu

Dr. Jeffrey Barnes
Dean of Student Success
951.552.8639
jbarnes@calbaptist.edu

Dr. Rich Simpson
University Registrar
951.343.4579
rsimpson@calbaptist.edu

College of Architecture, Visual Arts, and Design

Mr. Mark Roberson
Dean

Dr. Matthew Niermann
Associate Dean

Dr. Katherine Papineau
Assistant Dean

Ms. Karen Heinze
Administrative Secretary
Phone 951.552.8733
cavad@calbaptist.edu

Faculty Information

The College of Architecture, Visual Arts, and Design embraces the entire spectrum of design-oriented disciplines, all students will experience our interdisciplinary approach to learning that offers unique and unlimited opportunities for collaboration, inspiration, and most importantly, a deep and well-rounded education. And building on this broad foundation, the college is continually expanding our program offerings to ensure our students continue to receive the most innovative and comprehensive education.

Students also benefit from a practice-based approach that connects them directly with professional organizations throughout Southern California, exposing them to real business situations, and often allowing them to take part in the professional process through mentoring and internships. What makes the College of Architecture, Visual Arts, and Design truly unique is that we teach these programs from a Christian worldview, encouraging students to use their creative talents to engage and inspire the world around them.

Architecture, BA

Traditional Major Program Requirements (90-105 units)

The Architecture major creates a rich academic environment marked by the confluence of advanced practice, contemporary theory, and social engagement. Our primary goal is to help students develop the capacity and judgment necessary to understand the built environment and generate architecture as a critical response, so that each student can engage both the discipline of architecture and the multiple discourses - artistic, technological, social, political, environmental, economic, spiritual - necessary to be a successful practitioner and a conscientious citizen with a Biblical worldview.

The Bachelor of Arts in Architecture at CBU is intended as a degree that will allow a student to proceed onto graduate studies, or into the workforce, in architecture or another discipline. It is not designed to be an accredited, professional degree and therefore does not satisfy the qualifications for licensure as an architect in most states in the U.S.

Lower Division Requirements

- ARC 120 - Design Communication
- ARC 122 - Design Fundamentals
- ARC 210 - Design Studio I
- ARC 212 - Design Studio II
- ARC 220 - Computer Modeling
- ARC 240 - Architectural History I
- ARC 242 - Architectural History II
- ARC 280 - Materials and Methods

- DES 110 - Creativity: Process and Purpose
- MAT 245 - Analytical Geometry and Calculus I **OR**
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 115 - Physics for Architects with Lab

Upper Division Requirements

- ARC 310 - Design Studio III
- ARC 312 - Design Studio IV
- ARC 350 - Architectural Theory I
- ARC 370 - Professional Preparation
- ARC 380 - Thermal Environmental Systems
- ARC 385 - Luminous and Sonic Environmental Systems
- ARC 393 - Structural Systems I
- ARC 410 - Design Studio V
- ARC 493 - Structural Systems II
- ENT 357 - Small Business Management

Upper Division Elective Requirements

Complete six (6) units from the following:

- ARC 400 - Special Topics in Architecture
- ARC 412 - Design Studio VI
- ARC 460 - International Design Seminar
- ARC 462 - International History and Theory Seminar
- ARC 480 - Advanced Sustainable Systems
- DES 310 - Creativity: Collaboration and Context

Optional Concentration Courses (12-15 units)

Students have the option of completing a concentration in one of the following: Architectural Representation; Construction Management; Human Factors in Design; Religion and the Built Environment

Architectural Representation (15 units)

Lower Division Requirement

- GDM 215 - Principles: Introduction to Graphic Design

Upper Division Requirements

Complete twelve (12) units from the following:

- GDM 315 - Practice: Designing Brand Identity
- GDM 351 - 3D Concept Design I
- GDM 353 - 3D Concept Design II
- GDM 354 - Mixed Reality Concept Design

Construction Management (12 units)

Complete twelve (12) units from the following:

- CON 330 - Construction Safety
- CON 350 - Project Delivery, Law and Contracts
- CON 430 - Advanced Estimating
- CON 460 - Construction Planning and Scheduling
- EGR 451 - Project and Construction Management

Human Factors in Design (12 units)

Complete twelve (12) units from the following:

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology
- ANT 410 - Economic and Political Anthropology
- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 328 - Cognitive Psychology
- PSY 338 - Sensation and Perception
- PSY 458 - Motivation and Emotion
- SOC 335 - Social Problems
- SOC 338 - Group Dynamics and Social Movements
- SOC 348 - Sociology of Aging
- SOC 355 - Social Stratification

Religion and the Built Environment (12 units)

Complete twelve (12) units from the following:

- ANT 460 - Religion and Culture
- CBS 403 - Congregation and Community
- CBS 420 - Behavioral Implications of Theology
- CST 360 - Church History
- CST 484 - Current Trends in Youth Ministry
- PHI 353 - Comparative Religions
- PSY 459 - Dynamics of Religious Experience **OR**
- SOC 349 - Sociology of Religion

Art Education, BA

The Art Education major will prepare students for visual art teaching careers working in the context of K-12 education. Candidates for the Art Education major will complete the state-approved Visual Art Single Subject Matter Program, which will satisfy the subject-matter competency requirement from the California Commission on Teacher Credentialing (CTC). As a state-approved teacher preparation program, the requirements for the Visual Art Single Subject Matter Program are subject to revision at any time by state or federal law. Art Education majors will be eligible to obtain a California teaching credential, by completing the professional methods courses with fieldwork and student teaching after applying and being admitted to the Preliminary Single Subject credential program under the School of Education.

Students choosing the Art Education major must additionally be admitted into the Credential program for Preliminary Single Subject Credential. Students who do not meet the credential requirements may not be able to complete the major due to accreditation requirements.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements can be obtained from the School of Education credential program advisors.

Traditional Major Program Requirements (100 units)

Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 202 - Art Appreciation
- ART 208 - Studio Drawing I
- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 242 - Global History of Art: Renaissance to Contemporary
- ART 283 - Painting I
- DES 110 - Creativity: Process and Purpose
- PHO 105 - The Camera

Upper Division Requirements

- ART 300 - Advanced Art
- ART 354 - Printmaking
- ART 415 - Aesthetics and the Classroom
- ART 430 - Art and the Bible
- DES 310 - Creativity: Collaboration and Context
- GDM 341 - Video Fundamentals

Art Studio Electives

Complete twelve (12) units from the following:

- ART 301 - Color, Theory, and Application
- ART 305 - Figure Drawing I
- ART 314 - Drawing II
- ART 323 - New Genre
- ART 325 - Sculpture II
- ART 353 - Ceramics II
- ART 383 - Painting II
- ART 385 - Film as Visual Art
- ART 405 - Figure Drawing II
- PHO 120 - Fine Art Photography

Upper Division Art History and Art Theory Coursework

Complete three (3) units from the following:

- ART 326 - Contemporary Art Issues

- ART 347 - Contemporary Art History
- ART 351 - Museum Studies
- ART 381 - Women in the Arts
- PHI 312 - Aesthetics

Preliminary Single Subject Credential

- EDU 407 - Reading and Writing in the Content Areas
- EDU 409 - Educational Psychology
- EDU 411 - Theories and Methods of Teaching Diverse Students
- EDU 440 - Classroom Management and Ethics
- EDU 490V - Subject Area Specialization: Visual Art
- EDU 497 - Secondary Methods
- EDU 498 - Student Teaching and Seminar
- EDU 499 - Student Teaching Portfolio
- ETC 407 - Technology and Learning

Art Therapy Studies, BA

Traditional Major Program Requirements (59-61 units)

The pre-professional Art Therapy degree prepares students for graduate study in the field of Art Therapy or Counselling by fulfilling the undergraduate requirements for graduate school admission set forth by The American Art Therapy Association. Certified practitioners of Art Therapy integrate the practice of studio arts and the fields of human development with current theories and models of counseling.

Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- DES 110 - Creativity: Process and Purpose
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

Lower Division Studio Art Elective Requirements

Complete six to eight (6-8) units from the following:

- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 283 - Painting I
- ILL 210 - Illustration I

Upper Division Requirements

- ART 495 - Art Therapy Studio
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 328 - Cognitive Psychology

- PSY 346 - Abnormal Psychology
- PSY 376 - Art Therapy

Upper Division Art Elective Requirements

Complete twelve (12) units from the following:

- ART 301 - Color, Theory, and Application
- ART 305 - Figure Drawing I
- ART 314 - Drawing II
- ART 325 - Sculpture II
- ART 353 - Ceramics II
- ART 354 - Printmaking
- ART 355 - Contemporary Art Practice
- ART 383 - Painting II
- ART 405 - Figure Drawing II
- ART 414 - Drawing III
- ART 432 - Sculpture III
- ART 453 - Ceramics III

Upper Division Elective Requirements

Complete six (6) units from the following:

- PSY 305 - Developmental Psychology: Child **OR**
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 422 - Theories of Counseling
- PSY 440 - Internship in Human Services
- PSY 443 - Social Psychology
- PSY 473 - Psychophysiology

Film, BA

Traditional Major Program Requirements (39-55 units)

Film is the most culturally influential artistic medium in our era. The Film major equips students both to understand film as a culture-shaping force and to pursue diverse careers in the entertainment industry. Students choose one of four concentrations: Film Analysis and Industry, Film Post Production, Film Production, or Screenwriting. Film majors develop valuable technical knowledge and experience as well as sharp critical thinking skills and significant audio-visual literacy. In a world that increasingly relies on visual information, a comprehension of how meaning grows out of the moving image is indispensable to a deeper social and cultural understanding. Our majors have the opportunity to learn how to apply this knowledge to filmmaking by creating high quality films on state-of-the-art equipment, writing screenplays and teleplays, and exploring the best of global cinema.

Lower Division Requirements

- DES 110 - Creativity: Process and Purpose
- FLM 105 - Introduction to Film
- FLM 150 - Film History
- FLM 250 - Film Theory and Criticism

Upper Division Requirements

- FLM 450 - World Cinema
- FLM 499 - Senior Capstone Project

Concentration Courses (21-37 units)

Students must complete all requirements in one of the following concentrations: Film Analysis and Industry; Film Post Production; Film Production; Film Production: LAFSC; Screenwriting

Film Analysis and Industry (21 units)

Core Requirements

- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

Elective Requirements

Complete nine (9) additional units from the following:

- ART 385 - Film as Visual Art
- DES 310 - Creativity: Collaboration and Context
- FLM 200 - Special Topics in Film
- FLM 210 - Film Genre
- FLM 300 - National Cinema
- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 370 - Writing for Streaming Media
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 403 - Writing Adapted Screenplays
- FLM 491 - Film Practicum
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 380 - Video Editing and Post Production II
- FLP 406 - Film Directing
- MUS 386 - Audio Recording and Studio Techniques I
- THE 113 - Makeup for Stage and Screen

Film Post Production (36 units)

Core Requirements

- DES 310 - Creativity: Collaboration and Context
- FLM 301 - Basic Screenwriting
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- FLP 380 - Video Editing and Post Production II
- GDM 351 - 3D Concept Design I
- GDM 352 - Visual Effects Concept Design
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 487 - Sound Design for Film and Multimedia

Film Studies Elective Requirement

Complete three (3) additional units from the following:

- FLM 200 - Special Topics in Film
- FLM 210 - Film Genre
- FLM 300 - National Cinema
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

Film Production Elective Requirements

Complete six (6) additional units from the following:

- ART 385 - Film as Visual Art
- FLM 491 - Film Practicum
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 406 - Film Directing
- GDM 354 - Mixed Reality Concept Design
- MUS 309 - History of Film Music
- MUS 387 - Audio Recording and Studio Techniques II
- THE 113 - Makeup for Stage and Screen

Film Production (36 units)

Core Requirements

- DES 310 - Creativity: Collaboration and Context
- FLM 301 - Basic Screenwriting
- FLM 390 - Film Industry
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I

- FLP 306 - Film Production II: Creative Producing
- FLM 350 - Film and Literature
- FLP 360 - Cinematography
- FLP 406 - Film Directing
- MUS 386 - Audio Recording and Studio Techniques I

Film Studies Elective Requirement

Complete three (3) additional units from the following:

- FLM 200 - Special Topics in Film
- FLM 210 - Film Genre
- FLM 300 - National Cinema
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 400 - Special Topics in Film
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

Film Production Elective Requirement

Complete three (3) additional units from the following:

- ART 385 - Film as Visual Art
- FLM 302 - Writing Short Screenplays
- FLM 370 - Writing for Streaming Media
- FLM 403 - Writing Adapted Screenplays
- FLM 491 - Film Practicum
- FLP 380 - Video Editing and Post Production II
- GDM 352 - Visual Effects Concept Design
- MUS 309 - History of Film Music
- MUS 387 - Audio Recording and Studio Techniques II
- MUS 487 - Sound Design for Film and Multimedia
- THE 113 - Makeup for Stage and Screen

Film Production: LAFSC (37 units)

As a participant in the Coalition for Christian Colleges and Universities and a "sending institution" for the Los Angeles Film Studies Center (LAFSC), CBU gives students the opportunity to study for one semester through the Center in Los Angeles, California. Completion of this concentration is contingent upon admittance to the Los Angeles Film Studies Center (LAFSC) program.

Core Requirement

- FLM 301 - Basic Screenwriting
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- FLP 306 - Film Production II: Creative Producing

- MUS 386 - Audio Recording and Studio Techniques I

Film Studies Elective Requirement

Complete three (3) additional units from the following:

- FLM 200 - Special Topics in Film
- FLM 210 - Film Genre
- FLM 300 - National Cinema
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

Film Production Elective Requirement

Complete three (3) additional units from the following:

- FLP 360 - Cinematography
- FLP 406 - Film Directing

LA Film Studies Center Requirements

- Hollywood Production Workshop (4 units)
- Faith and Artistic Development in Film (3 units)
- Internship: Inside Hollywood (6 units)
- Narrative Storytelling (3 units)

Screenwriting (30 units)

Core Requirements

*Students who attend the Los Angeles Film Studies Center (LAFSC) program may variance the Professional Screenwriting course at LAFSC for either FLM 302 or FLM 403 if not also pursuing the Film Production concentration.

- ENG 201 - Introduction to Literature **OR**
- ENG 273 - Introduction to Creative Writing
- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays *
- FLM 350 - Film and Literature
- FLM 370 - Writing for Streaming Media
- FLM 403 - Writing Adapted Screenplays *
- FLM 470 - Adaptation and Intertextuality

Elective Requirements

Complete nine (9) additional units from the following:

- ART 385 - Film as Visual Art
- DES 310 - Creativity: Collaboration and Context
- FLM 200 - Special Topics in Film
- FLM 300 - National Cinema
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 320 - Sundance Film Festival with Windrider Forum
- FLM 340 - Major Directors
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 420 - Independent Film and Counter-Cinema
- FLM 491 - Film Practicum
- FLP 170 - Film Production I: Visual Storytelling
- FLP 180 - Video Editing and Post Production I
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 380 - Video Editing and Post Production II
- FLP 406 - Film Directing
- THE 113 - Makeup for Stage and Screen

Fine Art, BA

Traditional Major Program Requirements (61-62 units)

The Fine Art program offers a curriculum intended to stimulate creative ability, impart effective technique and foster an understanding and appreciation of the dynamic role of visual art in culture, whether defined locally or globally and grounded in a Biblical worldview. While recognizing the unique intersection of technology and tradition that has transformed the practice of visual art in our time, the program emphasizes traditional media: drawing, painting, printmaking and sculpture. The result is to provide quality professional preparation that can be realized in market-based applications and/or further graduate-level studies.

Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 241 - Global History of Art: Ancient to Medieval
- ART 242 - Global History of Art: Renaissance to Contemporary
- DES 110 - Creativity: Process and Purpose

Lower Division Studio Elective Requirement

Complete three to four (3-4) units from the following:

- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 283 - Painting I
- ILL 210 - Illustration I

Upper Division Requirements

- ART 300 - Advanced Art
- ART 301 - Color, Theory, and Application
- ART 355 - Contemporary Art Practice
- ART 351 - Museum Studies
- ART 499 - Senior Exhibition
- PHI 312 - Aesthetics
- DES 310 - Creativity: Collaboration and Context

Upper Division Art History and Theory Elective Requirements

Complete six (6) units from the following:

- ARC 350 - Architectural Theory I
- ART 345 - Nineteenth Century Art History
- ART 346 - History of Modern Painting
- ART 347 - Contemporary Art History
- ART 361 - Art of Latin America
- ART 371 - Art of Southeast Asia
- ART 381 - Women in the Arts
- ART 391 - Art Theory
- ART 412 - Topics in Art History
- FLM 300 - National Cinema
- FLM 450 - World Cinema
- GDM 305 - History of Graphic Design

Upper Division Studio Art Elective Requirements

Complete twelve (12) units from the following:

- ART 305 - Figure Drawing I
- ART 314 - Drawing II
- ART 323 - New Genre
- ART 325 - Sculpture II
- ART 353 - Ceramics II
- ART 354 - Printmaking
- ART 383 - Painting II
- ART 400 - Problems in Art
- ART 405 - Figure Drawing II
- ART 414 - Drawing III
- ART 432 - Sculpture III
- ART 435 - Figure Drawing III
- ART 450 - Internship in Visual Arts
- ART 453 - Ceramics III

Graphic Design and Visual Experience, BA

Traditional Major Program Requirements (63 units)

The Graphic Design and Visual Experience major is a multidisciplinary program that prepares students to think critically, creatively, and experimentally, in pursuit of creating relevant, meaningful design solutions. The major prepares students for careers as practitioners and art directors in professions including graphic design, experience design, emerging media, 3D, animation and motion design. This studio-based major gives student's a rigorous education that results in a competitive, well-rounded portfolio that stands out in the graphic design industry.

Lower Division Requirements

- ART 201 - Principles of Design and Color
- DES 101 - Design Technology Applications I
- DES 110 - Creativity: Process and Purpose
- GDM 215 - Principles: Introduction to Graphic Design
- GDM 225 - Principles: Letterforms and Structure
- GDM 235 - Principles: Image Visualization
- GDM 240 - Principles: Innovations in Design
- PHO 105 - The Camera

Upper Division Requirements

- DES 310 - Creativity: Collaboration and Context
- DES 498 - Portfolio
- GDM 315 - Practice: Designing Brand Identity
- GDM 325 - Practice: Typographic Form and Space
- GDM 335 - Conceptual Image Making

- GDM 371 - User Interface and User Experience Design I **OR**
- GDM 342 - Motion Design I **OR**
- GDM 351 - 3D Concept Design I

- GDM 495 - Design Capstone
- PHI 312 - Aesthetics

Concentration Courses (15 units)

Students must complete all requirements in one of the following concentrations: Graphic Design; Illustration; Photography; Motion Design; Visual Experience Design

Graphic Design (15 units)

- GDM 415 - Studio: Visual Systems Design (6 units)
- GDM 425 - Studio: Typographic Hierarchies
- GDM 435 - Studio: Image and Art Direction
  Choose 3 units from the following:
- GDM 342 - Motion Design I
- GDM 351 - 3D Concept Design I
- GDM 371 - User Interface and User Experience Design I
- GDM 425 - Studio: Typographic Hierarchies
- GDM 435 - Studio: Imaging and Art Direction
- ILL 350 - Digital Painting II
- PHO 332 - Studio Lighting

Illustration (15 units)

- GDM 425 - Studio: Typographic Hierarchies
- ILL 210 - Illustration I
- ILL 310 - Illustration II
- ILL 350 - Digital Painting II

Choose 3 units from the following:

- GDM 415 - Studio: Visual Systems Design
- GDM 425 - Studio: Typographic Hierarchies
- GDM 435 - Studio: Image and Art Direction

Photography (15 units)

- GDM 435 - Studio: Image and Art Direction
- PHO 332 - Studio Lighting
- PHO 350 - Digital Printing and Color Management
- PHO 432 - Location Lighting

Choose 3 units from the following:

- GDM 415 - Studio: Visual Systems Design
- GDM 425 - Studio: Typographic Hierarchies

Motion Design (15 units)

- GDM 342 - Motion Design I
- GDM 343 - Motion Design II
- GDM 351 - 3D Concept Design I
- GDM 352 - Visual Effects Concept Design
- GDM 455 - Studio: Visual Experience Design

Visual Experience Design (15 units)

- GDM 351 - 3D Concept Design I
- GDM 352 - Visual Effects Concept Design
- GDM 353 - 3D Concept Design II
- GDM 354 - Mixed Reality Concept Design
- GDM 455 - Studio: Visual Experience Design

Illustration, BA

Traditional Major Program Requirements (63 Units)

The Bachelor of Arts in Illustration degree develops students in the art of visual and conceptual storytelling in a variety of artistic mediums, preparing them to pursue a career as a professional illustrator.

Lower Division Requirements

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 283 - Painting I *OR*

- GDM 215 - Principles: Introduction to Graphic Design **OR**
- GDM 225 - Principles: Letterforms and Structure
- BIO 153 - Anatomy and Physiology I
- DES 101 - Design Technology Applications I
- DES 110 - Creativity: Process and Purpose
- ILL 210 - Illustration I
- ILL 250 - Digital Painting I
- GDM 240 - Principles: Innovations in Design **OR**
- ART 242 - Global History of Art: Renaissance to Contemporary
- KIN 264 - Movement Anatomy

Upper Division Requirements

- ART 305 - Figure Drawing I
- ART 405 - Figure Drawing II
- DES 310 - Creativity: Collaboration and Context
- DES 498 - Portfolio
- ENG 371 - The Graphic Novel
- ILL 310 - Illustration II
- ILL 350 - Digital Painting II
- ILL 400 - Special Topics in Illustration
- ILL 410 - Illustration Studio (6 units)

Optional Concentration Courses (12-15 units)

Students have the option of completing a concentration in one of the following: Fine Art; Motion Design

Fine Art

- ART 283 - Painting I
- ART 314 - Drawing II *OR*
- ART 354 - Printmaking
- ART 300 - Advanced Art *OR*
- ART 414 - Drawing III
- ART 383 - Painting II

Motion Design

- GDM 215 - Principles: Introduction to Graphic Design
- GDM 315 - Practice: Designing Brand Identity
- GDM 342 - Motion Design I
- GDM 343 - Motion Design II
- GDM 352 - Visual Effects Concept Design

Interior Design, BA

Traditional Major Program Requirements (63 units)

The Interior Design major develops students in the art of applying artistic principles and techniques to the professional planning, designing, equipping, and furnishing of interior spaces - preparing them to pursue professional practice as interior designers.

Lower Division Requirements

- ARC 120 - Design Communication
- ARC 122 - Design Fundamentals
- ARC 220 - Computer Modeling
- ARC 242 - Architectural History II **OR**
- ART 242 - Global History of Art: Renaissance to Contemporary
- DES 110 - Creativity: Process and Purpose

Upper Division Requirements

- ARC 385 - Luminous and Sonic Environmental Systems
- ART 301 - Color, Theory, and Application
- DES 310 - Creativity: Collaboration and Context
- DES 498 - Portfolio
- ENT 357 - Small Business Management
- IND 310 - Interior Design Studio I
- IND 312 - Interior Design Studio II
- IND 350 - Space Planning and Code
- IND 380 - Materials, Finishes, and Sourcing
- IND 410 - Interior Design Studio III
- IND 412 - Interior Design Studio IV

Photography, BA

Traditional Major Program Requirements (54 units)

The Photography major explores the practice and theory of photography via technical understandings and methodological explorations of the photography medium as applied to commercial, fine art, and social practice. Through the introduction of narrative, conceptual development, and Christian worldview - students will acquire a unique stylistic aesthetic and photographic voice leading to a professional portfolio.

Lower Division Requirements

- DES 110 - Creativity: Process and Purpose
- PHO 105 - The Camera
- PHO 110 - Commercial Photography
- PHO 120 - Fine Art Photography
- PHO 140 - History of Photography
- PHO 250 - Post-Production

Upper Division Requirements

- DES 310 - Creativity: Collaboration and Context
- PHO 310 - Process and Practice

- PHO 330 - Visual Storytelling
- PHO 332 - Studio Lighting
- PHO 350 - Digital Printing and Color Management
- PHO 400 - Special Topics in Photography
- PHO 415 - Context and Narrative
- PHO 432 - Location Lighting
- PHO 433 - Studio Practice
- PHO 450 - Digital Asset Management
- PHO 485 - Photography Business
- PHO 499 - Portfolio and Gallery

Art History Minor

Traditional Minor Program Requirements (21-22 units)*

* Fine Art majors and minors must complete nine (9) additional Art History or Theory elective units unique to the Art History minor.

Lower Division Requirements

- ART 241 - Global History of Art: Ancient to Medieval
- ART 242 - Global History of Art: Renaissance to Contemporary

Lower Division Studio Elective Requirement

Complete three to four (3-4) units from the following:

- ART 201 - Principles of Design and Color
- ART 204 - Drawing I
- ART 225 - Sculpture I
- ART 232 - Ceramics I
- DES 110 - Creativity: Process and Purpose

Upper Division Art History and Theory Elective Requirements

Complete twelve (12) units from the following:

- ARC 350 - Architectural Theory I
- ART 345 - Nineteenth Century Art History
- ART 346 - History of Modern Painting
- ART 347 - Contemporary Art History
- ART 351 - Museum Studies
- ART 361 - Art of Latin America
- ART 371 - Art of Southeast Asia
- ART 381 - Women in the Arts
- ART 412 - Topics in Art History
- ART 430 - Art and the Bible
- FLM 300 - National Cinema
- FLM 450 - World Cinema

- GDM 305 - History of Graphic Design

Film Minor

Traditional Minor Program Requirements (21 units)

Lower Division Requirements

- FLM 105 - Introduction to Film
- FLM 150 - Film History

- FLM 250 - Film Theory and Criticism **OR**
- FLP 170 - Film Production I: Visual Storytelling

Upper Division Elective Requirements

Complete twelve (12) additional units from the following:

- FLM 300 - National Cinema
- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays
- FLM 303 - Asian Cinema
- FLM 305 - Christianity and Film
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 370 - Writing for Streaming Media
- FLM 390 - Film Industry
- FLM 400 - Special Topics in Film
- FLM 403 - Writing Adapted Screenplays
- FLM 420 - Independent Film and Counter-Cinema
- FLM 430 - Film and Sound
- FLM 450 - World Cinema
- FLM 470 - Adaptation and Intertextuality
- FLM 491 - Film Practicum (1-15 units)
- FLP 306 - Film Production II: Creative Producing
- FLP 360 - Cinematography
- FLP 380 - Video Editing and Post Production II
- FLP 406 - Film Directing

Fine Art Minor

Traditional Minor Program Requirements (20-21 units)

Lower Division Art History Requirement

- ART 241 - Global History of Art: Ancient to Medieval
- ART 242 - Global History of Art: Renaissance to Contemporary

Lower Division Studio Elective Requirement

Complete three to four (3-4) units from the following:

- ART 201 - Principles of Design and Color
- ART 208 - Studio Drawing I
- ART 225 - Sculpture I
- ART 232 - Ceramics I
- ART 283 - Painting I

Upper Division Art History and Theory Requirement

- ART 351 - Museum Studies

Upper Division Studio Art Elective Requirements

Complete eight (8) units from the following:

- ART 300 - Advanced Art
- ART 301 - Color, Theory, and Application
- ART 305 - Figure Drawing I
- ART 314 - Drawing II
- ART 323 - New Genre
- ART 325 - Sculpture II
- ART 353 - Ceramics II
- ART 355 - Contemporary Art Practice
- ART 383 - Painting II
- ART 400 - Problems in Art
- ART 435 - Figure Drawing III
- ART 450 - Internship in Visual Arts
- ART 453 - Ceramics III

Graphic Design and Visual Experience Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- DES 101 - Design Technology Applications I
- GDM 215 - Principles: Introduction to Graphic Design
- GDM 225 - Principles: Letterforms and Structure
- GDM 235 - Principles: Image Visualization

Upper Division Requirements

- GDM 315 - Practice: Designing Brand Identity
- GDM 325 - Practice: Typographic Form and Space
- GDM 335 - Conceptual Image Making

  Choose 3 units from the following:

- GDM 415 - Studio: Visual Systems Design
- GDM 425 - Studio: Typographic Hierarchies
- GDM 435 - Studio: Image and Art Direction

Illustration Minor

N/A - No Change

Traditional Minor Program Requirements (23 Units)

Lower Division Requirements

- ART 208 - Studio Drawing I
- ILL 210 - Illustration I
- ILL 250 - Digital Painting I

Upper Division Requirements

- ART 305 - Figure Drawing I
- ILL 310 - Illustration II
- ILL 350 - Digital Painting II
- ILL 410 - Illustration Studio *OR*
- ILL 400 - Special Topics in Illustration

Photography Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- PHO 105 - The Camera
- PHO 140 - History of Photography
- PHO 250 - Post-Production

Upper Division Requirements

- PHO 310 - Process and Practice
- PHO 330 - Visual Storytelling
- PHO 332 - Studio Lighting
- PHO 350 - Digital Printing and Color Management
- PHO 432 - Location Lighting

Visual Experience Design Minor

Traditional Minor Program Requirements (18 units)

The minor of Visual Experience Design develops student's ability to create, design, and produce visual experience across the span of emerging media.

Lower Division Requirements

- DES 101 - Design Technology Applications I
- GDM 215 - Principles: Introduction to Graphic Design

Upper Division Requirements

- GDM 351 - 3D Concept Design I
- GDM 371 - User Interface and User Experience Design I

Upper Division Elective Requirements

Complete six (6) units from the following:

- GDM 352 - Visual Effects Concept Design
- GDM 353 - 3D Concept Design II
- GDM 354 - Mixed Reality Concept Design
- GDM 400 - Special Topics in Graphic Design
- GDM 455 - Studio: Visual Experience Design

College of Arts and Sciences

Dr. Lisa Hernandez
Dean

Dr. Thomas Ferko
Associate Dean

Dr. Laura Veltman
Associate Dean

Ms. Rebecca Boyd
Administrative Assistant
Phone 951.343.4363
reboyd@calbaptist.edu

Faculty Information

Department

Aviation Science	John Marselus, D. Min.

Division

Arts and Letters	Laura Veltman, Ph.D.
Departments	
Communication Arts	Victoria Brodie, Ed.D.
History and Government	Christopher McHorney, Ph.D.
Modern Languages and Literature	James Lu, Ph.D.

Division

Natural and Mathematical Sciences	Thomas Ferko, Ph.D.
Departments	
Biological Sciences	Bruce Prins, Ph.D.
Chemical Sciences	Patrick Schacht, Ph.D.
Mathematical Sciences	Ricardo Cordero-Soto, Ph.D.

The College of Arts and Sciences comprises seven departments: Aviation Science; the Division of Arts and Letters, which includes Communication Arts, History and Government, and Modern Languages and Literature; and the Division of Natural and Mathematical Sciences, which includes Biological Sciences, Chemical Sciences, and Mathematical Sciences. Together they reflect and promote studies in and personal pursuit of the finest in human artistic, intellectual, scientific and spiritual achievements. All curricula are aimed at enriching the lives of our students by enabling them to grow in sensitivity to themselves, their heritages, and the world around them.

Integration of faith with learning is key both to our identity and our mission, our tasks and our goals. Our commitment to applying faith to life is second to none. If you want to pursue a job to earn a living, a degree program in most any university will do. But if you want to pursue a calling, CBU and the programs in the College of Arts and Sciences will prepare you for the race.

Department of Aviation Science

Dr. John Marselus
Chair

Mr. Peyton Beard
Department Secretary
Phone 951.552.8800
FAX 951.552.8801
aviationadmin@calbaptist.edu

Faculty Information

The Department of Aviation Science prepares students for professional aviation careers who think critically, communicate effectively, and lead ethically with excellence built on a strong Christian foundation. Students can obtain private pilot, instrument airplane, commercial single engine and multi engine, flight instructor, instrument instructor, and multiengine instructor FAA certifications and ratings. In addition, greater in-depth knowledge is obtained in areas such as aerodynamics, airline management, human factors, international aviation environment, laws and regulations, leadership, meteorology, safety, and security.

The Aviation Flight Bachelor of Science program is designed for students with little or no flight experience desiring a career as a professional aviator. The Aviation Flight program has concentrations in Commercial, Military, Missionary, and Unmanned Aerial Systems. Potential careers include airline pilot, air cargo pilot, military pilot, missionary pilot, law enforcement pilot, state aviation department pilot, air taxi or charter pilot, business or corporate pilot, unmanned aerial system operator and observer, and flight instructor.

All incoming Aviation Flight majors are initially enrolled as preflight majors. After successful completion of solo with a minimum 2.5 GPA, the student can declare Aviation Flight with a specific concentration. The preflight program is designed that even after a year, an Aviation Management Bachelor of Science can be completed within the next three years of that four year degree. For those considering the Aviation Flight BS UAS or Military concentrations, additional requirements need to be met in order to declare either of those concentrations.

The Aviation Management Bachelor of Science program is designed for students desiring a professional non-flight aviation career. The Aviation Management program has concentrations in Aerospace Technology, Airport Management and Operations, Dispatch, Flight Operations, and Logistics and Operations. Graduates are prepared for careers in airline management, airport management, fixed base operations management, aviation safety and security, dispatch, and aviation consulting.

Aviation Minors include Dispatch, Management, Missionary Pilot, and Unmanned Aerial Systems. These can be added to the Aviation Management or Aviation Flight Bachelors of Science degrees as appropriate or other degrees within the university. Dispatch prepares graduates to serve as a crew scheduler or dispatcher with airlines or business aviation as a licensed FAA Dispatcher while Unmanned Aerial Systems prepares students to enter this rapidly evolving segment of the aviation industry with the knowledge of remotely piloted systems and the pilot qualifications necessary to fly UAS within the national airspace system.

Aviation Flight, BS

Traditional Major Program Requirements (59-73 units)

The major is designed for students whose desire is to be a professional commercial airline pilot, unmanned aerial systems operator, military pilot, or missionary pilot. Students complete a common core and can choose to concentrate in one or more of four concentrations: Commercial, Military, Missionary, and Unmanned Aerial Systems.

Lower Division Requirements

- AVN 110 - Introduction to Aviation

- AVN 210 - Aviation Meteorology
- FLT 116 - Private Pilot Ground
- FLT 117 - Private Airplane Pilot Lab I
- FLT 118 - Private Airplane Pilot Lab II
- FLT 119 - Instrument Pilot Ground
- FLT 214 - Instrument I Airplane Pilot Lab
- FLT 216 - Instrument II Airplane Pilot Lab
- FLT 224 - Modern Avionics and Navigational Aids

Upper Division Requirements

- AVN 310 - Aviation Law and Regulations
- AVN 322 - Aviation Safety
- FLT 326 - Human Factors
- FLT 328 - Aircraft Systems
- FLT 350 - Airplane Aerodynamics
- FLT 410 - Turbine Systems
- FLT 420 - Crew Resource Management
- FLT 495 - Advanced Aerodynamics

Concentration Courses (12-30 units)

Students must complete all requirements in one or more of the following concentrations: Commercial; Military; Missionary; Unmanned Aerial Systems

Commercial (20-25 units)

Commercial Requirements

- FLT 301 - Advanced and Commercial Airplane Pilot Ground
- FLT 311 - Commercial Pilot Ground
- FLT 312 - Commercial I Airplane Pilot Lab
- FLT 313 - Commercial II Airplane Pilot Lab
- FLT 314 - Advanced Commercial Airplane Pilot Lab

Commercial Elective Requirements

Complete nine (9) additional units from the following:

- AMG 424 - Business Aviation Management
- AMG 426 - Airline Management
- AVN 490 - Aviation Internship I
- AVN 491 - Aviation Internship II
- FLT 430 - Airline Prep

Optional Flight Instructor Requirements

Complete four to five (4-5) units from the following:

- FLT 315 - Flight Instructor Pilot Ground

- FLT 318 - Certified Flight Instructor Lab
- FLT 319 - Certified Flight Instrument Instructor Lab

Military (12 units)

Military Requirement

- AVN 390 - Leadership in Aviation
- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership

Military Elective Requirements

Complete three (3) units from the following:

- AIR 301 - Air Force Leadership and Management I
- AIR 302 - Air Force Leadership and Management II
- AIR 303 - Air Force Leadership and Management III
- AIR 401 - National Security Forces in Contemporary American Society I
- AIR 402 - National Security Forces in Contemporary American Society II
- AIR 403 - National Security Forces in Contemporary American Society III
- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Group and Leadership
- MSL 301 - Training Management and the Warfighting Functions
- MSL 302 - Applied Leadership in Small Unit Operations
- MSL 401 - The Army Officer
- MSL 402 - Company Grade Leadership
- MSL 451 - Seminar in Military History
- POL 471 - Terrorism
- PST 405 - Cross-Cultural Leadership
- PSY 388 - Industrial and Organizational Psychology

Missionary (26-30 units)

Missionary Requirements

- CBS 420 - Behavioral Implications of Theology **OR**
- CST 370 - The Christian Faith
- FLT 311 - Commercial Pilot Ground
- FLT 312 - Commercial I Airplane Pilot Lab
- FLT 313 - Commercial II Airplane Pilot Lab
- FLT 315 - Flight Instructor Pilot Ground
- FLT 318 - Certified Flight Instructor Lab
- FLT 421 - Mission Aviation
- ICS 305 - Global Christianity

Old Testament Elective Requirement

Complete three (3) units from the following:

- CST 110 - Old Testament Survey
- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings

New Testament Elective Requirement

Complete three (3) units from the following:

- CST 130 - New Testament Survey
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church

Optional Multi-Engine Commercial Requirements

- FLT 301 - Advanced and Commercial Airplane Pilot Ground
- FLT 314 - Advanced Commercial Airplane Pilot Lab

Unmanned Aerial Systems (16 units)

Unmanned Aerial Systems Requirements

- UAS 115 - Introduction to Unmanned Aerial Systems
- UAS 215 - Small Unmanned Aerial Systems Flight Lab
- UAS 325 - Medium Unmanned Aerial Systems Operations I
- UAS 425 - Large Unmanned Aerial Systems Operations

Unmanned Aerial Systems Elective Requirements

Complete six (6) units from the following:

- COM 308 - Interpersonal Communications
- GDM 341 - Video Fundamentals
- UAS 326 - Medium Unmanned Aerial Systems Operations II
- UAS 400 - Special Topics in UAS
- UAS 415 - Unmanned Aerial Systems Mission Planning
- POL 471 - Terrorism

Additional Course Fees

California Baptist University course lab fees are designed to ensure a student has funds available at the beginning of the semester to train within the syllabus of that flight course. CBU tuition does not include flight course costs and fees. Flight lab fees are based on FAA approved syllabus for each course and cover ground, simulator, and flight training. Flight course lab fees are due to CBU Student Accounts prior to a student beginning any flight lab and are unique to each flight course.

To receive clearance to participate in a flight lab, students must meet all financial clearance requirements and complete full payment with verified funds to cover their flight lab fee. Once cleared to fly, the lab fee amount billed to the student's student account will be credited to the student's flight fee account. Students are responsible for accessing and tracking their flight fee accounts through the TALON/ETA system incorporated on the flight line. If for any reason a

student's flight fee account falls below the required minimum balance, the University may place a hold on the student's academic progress, until the flight account is restored to good standing.

Students will have the entire semester to complete the flight lab in which they are enrolled. In order to pass a flight lab, students must meet each flight lab's student learning outcomes. Inability to achieve the outcomes will result in a failing grade. If the student learning outcomes for the flight lab are not achieved by the end of semester due to reasons beyond the student's control (weather, aircraft maintenance, etc.), a Satisfactory Progress (SP) will be issued, allowing the student to continue the flight lab in the subsequent semester. Any unused funds remaining on a student's flight account can be used in the subsequent semester.

If a student with an SP does not meet the student learning outcomes for the flight lab in which they are enrolled within the subsequent three semesters, the student will receive a failing grade for the lab. The student, in consultation with the Department of Aviation Sciences (Department), may have the option to enroll in the lab again, incurring an additional lab fee.

If a student is found unable to meet the standards in flight (sickness/fear/low situational awareness/physically unable/not meeting standards), the flight line will make reasonable efforts to facilitate that student's training in order that the student can demonstrate the requisite proficiency to pass the lab. The Department will conduct a three-level review (Chief of Program/Director of Flight Operations/Chair of Department). If, in the Department's professional assessment, the student cannot meet the standards, the student will be withdrawn from the course and refunded the flight lab fee balance from the flight account in TALON/ETA.

If a student does not achieve proficiency requirements within the flight hour parameters defined in the syllabus for any given flight lab, upon Department approval, the student may deposit additional funds to their TALON/ETA account to continue to train to demonstrate proficiency. Students will be required to submit an "Additional Flight Hours" request form with payment (VA will not cover additional hours) to the Student Accounts Office to add additional funds to their flight account. Once the form is processed and payment is confirmed, the Department of Aviation will be notified of the student's clearance to fly via email from the Student Accounts Office. Should a student fail a flight lab, change degree programs, withdraw from the University, or graduate from the program, any credit from unused "Additional Flight Hours" will be refunded to the student.

Course	Activities	Hours	Hourly Rate	Total Cost	Course Cost
FLT 117 - Private Airplane Pilot Lab I	Ground Hours	19.5	$50.00	$975.00	$7,139.00
	Dual AATD Hours	4.9	160.00	784.00	
	Dual Archer Hours	21	245.00	5,145.00	
	ETA Talon			100.00	
	Foreflight ProPlus			135.00	
FLT 118 - Private Airplane Pilot Lab II	Ground Hours	26.5	$50.00	$1,325.00	$10,857.00
	Dual Archer Hours	26	245.00	6,370.00	
	Solo Archer Hours	10.5	195.00	2,048.00	
	Dual AATD Hours	3.9	160.00	624.00	
	ETA Talon			100.00	
	Solo Archer Hours (checkride)	2	195.00	390.00	
FLT 214 - Instrument I Airplane Pilot Lab	Ground Hours	16	$50.00	$800.00	$3,591.00

	Dual AATD Hours	14.3	160.00	2,288.00	
	ETA Talon			100.00	
	ForeFlight ProPlus			135.00	
	Jeppesen 141 IFR			169.00	
	Jeppesen charts in ForeFlight			99.00	
FLT 216 - Instrument II Airplane Pilot Lab	Ground Hours	28	$50.00	$1,400.00	$8,565.00
	Dual Archer Hours	23	245.00	5,635.00	
	Dual AATD Hours	6.5	160.00	1,040.00	
	ETA Talon			100.00	
	Solo Archer Hours (checkride)	2	195.00	390.00	
FLT 312 - Commercial I Airplane Pilot Lab	Ground Hours	10	$50.00	$500.00	$17,840.00
	Dual AATD Hours	1.3	160.00	208.00	
	Dual Arrow Hours	10	270.00	2,700.00	
	Dual Archer Hours	9.5	245.00	2,328.00	
	Solo Archer Hours	60	195.00	11,700.00	
	ETA Talon			100.00	
	Jeppesen 141 Comm			169.00	
	ForeFlight ProPlus			135.00	
FLT 313 - Commercial II Airplane Pilot Lab	Ground Hours	30	$50.00	$1,500.00	$12,862.00
	Dual Arrow Hours	37	270.00	9,990.00	
	Dual AATD Hours	5.2	160.00	832.00	
	ETA Talon			100.00	
	Solo Arrow Hours (checkride)	2	220.00	440.00	
FLT 314 - Advanced Commercial Airplane Pilot Lab	Ground Hours	11.9	$50.00	$595.00	$8,421.00
	Dual Seminole Hours	18.5	365.00	6,753.00	
	Solo Seminole Hours (checkride)	2	315.00	630.00	
	Dual AATD Hours	1.3	160.00	208.00	

	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	
FLT 318 - Certified Flight Instructor Lab	Ground Hours	43	$50.00	$2,150.00	$7,853.00
	Dual Archer Hours	15.5	245.00	3,798.00	
	Dual AATD Hours	8	160.00	1,280.00	
	Solo Archer Hours (checkride)	2	195.00	390.00	
	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	
FLT 319 - Certified Flight Instrument Instructor Lab	Ground Hours	17.1	$50.00	$855.00	$6,267.00
	Dual Archer Hours	10.2	245.00	2,499.00	
	Dual AATD Hours	14.3	160.00	2,288.00	
	Solo Archer Hours (checkride)	2	195.00	390.00	
	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	
FLT 419 - Multi-Engine Instructor Pilot Lab	Ground Hours	16	$50.00	$800.00	$7,140.00
	Dual Seminole Hours	15	365.00	5,475.00	
	Solo Seminole Hours (checkride)	2	315.00	630.00	
	ForeFlight ProPlus			135.00	
	ETA Talon			100.00	

Ground time includes orals and pre/post flight briefings
Archer Hourly Rate: $195
Arrow Hourly Rate: $220
Seminole Hourly Rate: $315
FRASCA AATD Hourly Rate: $110
CFI Hourly Rate: $50

Effective Fall 2021.

Aviation Management, BS

Traditional Major Program Requirements (57-67 units)

The major is designed for students who desire to pursue a non-flight aviation career. The major has an aviation business foundation, preparing students for careers in airline management, airport management, fixed base operations management, aviation safety and security, aviation consulting, and inflight services. Concentrations include: Dispatch; Logistics and Operations; Airport Management and Operations; Flight Operations; and Aerospace Technology.

Lower Division Requirements

- AVN 110 - Introduction to Aviation
- AVN 210 - Aviation Meteorology
- CIS 265 - Information Systems Essentials
- FLT 116 - Private Pilot Ground

- MAT 115 - Intermediate Algebra *OR*
- MAT 123 - Survey of Mathematics *OR*
- STA 144 - Introduction to Statistics

- UAS 115 - Introduction to Unmanned Aerial Systems

Upper Division Requirements

- AMG 320 - Fixed Base Operations
- AMG 324 - Aviation Security
- AMG 424 - Business Aviation Management
- AMG 426 - Airline Management
- AMG 499 - Aviation Management Capstone
- AVN 300 - Aviation Research, Writing and Communication
- AVN 310 - Aviation Law and Regulations
- AVN 322 - Aviation Safety
- FLT 326 - Human Factors

Concentrations (12-22 units)

Students must complete all requirements in one of the following concentrations: Aerospace Technology; Airport Management and Operations; Dispatch; Flight Operations; Logistics and Operations

Aerospace Technology (22 units)

- AMG 423 - Airport Planning and Design
- EGR 182 - Introductory Mathematics for Engineering Applications *OR*
- MAT 245 - Analytical Geometry and Calculus I
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- FLT 328 - Aircraft Systems
- FLT 350 - Airplane Aerodynamics
- FLT 410 - Turbine Systems

Airport Management and Operations (15 units)

- ACC 250 - Principles of Accounting I
- AMG 330 - Airport Management I
- AMG 332 - Airport Management II
- AMG 423 - Airport Planning and Design
- AMG 452 - Aviation Finance and Consulting

Dispatch (18 units)

- DSP 330 - Dispatch I
- DSP 430 - Dispatch II
- DSP 497 - Dispatch III
- FLT 119 - Instrument Pilot Ground
- FLT 328 - Aircraft Systems
- FLT 410 - Turbine Systems

Flight Operations (15 units)

- FLT 119 - Instrument Pilot Ground
- FLT 328 - Aircraft Systems
- FLT 350 - Airplane Aerodynamics
- FLT 410 - Turbine Systems
- FLT 420 - Crew Resource Management

Logistics and Operations (12 units)

- BUS 341 - Operations Management **OR**
- BUS 463 - Business and Organizational Management
- BUS 352 - Global Supply Chain Management
- BUS 452 - Logistics Planning and Controlling
- BUS 475 - Project and Team Management

Aviation Dispatch Minor

Traditional Minor Program Requirements (24 units)

The Aviation Dispatch Minor is only available for Aviation Flight and Aviation Management majors.

Lower Division Requirements

- FLT 116 - Private Pilot Ground
- FLT 119 - Instrument Pilot Ground

Upper Division Requirements

- DSP 330 - Dispatch I
- DSP 430 - Dispatch II

- DSP 497 - Dispatch III
- FLT 326 - Human Factors
- FLT 328 - Aircraft Systems
- FLT 410 - Turbine Systems

Aviation Management Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirements

- AVN 110 - Introduction to Aviation
- FLT 116 - Private Pilot Ground

Upper Division Requirements

Complete twelve (12) units from the following:

- AMG 320 - Fixed Base Operations
- AVN 322 - Aviation Safety
- AMG 324 - Aviation Security
- AMG 330 - Airport Management I
- AMG 332 - Airport Management II
- AMG 424 - Business Aviation Management
- AMG 426 - Airline Management

Aviation Unmanned Aerial Systems Minor

Traditional Minor Program Requirements (25 units)

Lower Division Requirements

- AVN 110 - Introduction to Aviation
- AVN 210 - Aviation Meteorology
- FLT 116 - Private Pilot Ground
- UAS 115 - Introduction to Unmanned Aerial Systems
- UAS 215 - Small Unmanned Aerial Systems Flight Lab

Upper Division Requirements

- FLT 326 - Human Factors
- UAS 325 - Medium Unmanned Aerial Systems Operations I

Upper Division Elective Requirements

Complete six (6) units from the following:

- COM 308 - Interpersonal Communications

- GDM 341 - Video Fundamentals
- UAS 326 - Medium Unmanned Aerial Systems Operations II
- UAS 400 - Special Topics in UAS
- UAS 415 - Unmanned Aerial Systems Mission Planning
- UAS 425 - Large Unmanned Aerial Systems Operations

Missionary Aviation Minor

Traditional Minor Program Requirements (46-51 Units)

Lower Division Requirements

- AVN 210 - Aviation Meteorology
- FLT 116 - Private Pilot Ground
- FLT 117 - Private Airplane Pilot Lab I
- FLT 118 - Private Airplane Pilot Lab II
- FLT 119 - Instrument Pilot Ground
- FLT 214 - Instrument I Airplane Pilot Lab
- FLT 216 - Instrument II Airplane Pilot Lab
- FLT 224 - Modern Avionics and Navigational Aids

Old Testament Elective Requirement

Complete three (3) units from the following:

- CST 110 - Old Testament Survey
- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings

New Testament Elective Requirement

Complete three (3) units from the following:

- CST 130 - New Testament Survey
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church

Upper Division Requirements

- CBS 420 - Behavioral Implications of Theology **OR**
- CST 370 - The Christian Faith
- FLT 301 - Advanced and Commercial Airplane Pilot Ground
- FLT 311 - Commercial Pilot Ground
- FLT 312 - Commercial I Airplane Pilot Lab
- FLT 313 - Commercial II Airplane Pilot Lab
- FLT 314 - Advanced Commercial Airplane Pilot Lab
- FLT 421 - Mission Aviation
- ICS 305 - Global Christianity

Optional Flight Instructor Requirements

Complete four to five (4-5) units from the following:

- FLT 315 - Flight Instructor Pilot Ground
- FLT 318 - Certified Flight Instructor Lab
- FLT 319 - Certified Flight Instrument Instructor Lab

Division of Arts and Letters - Department of Communication Arts

Division of Arts and Letters

Dr. Laura Veltman
Associate Dean

Ms. Rosemary Welsh
Department Secretary
Phone 951.343.4590
FAX 951.343.4661
rwelsh@calbaptist.edu

Faculty Information

The Division of Arts and Letters consists of three departments: Communication Arts, History and Government, and Modern Languages and Literature. While most of our programs are rooted in traditional disciplines that have stood the test of time in academia, we equip our students with the necessary tools for today's global market while training them in the skills they need to conquer the challenges of tomorrow.

Department of Communication Arts

Dr. Victoria Brodie
Chair

Ms. Patricia VanBuskirk
Department Secretary
Phone 951.343.4964
FAX 951.343.4514
pvanbuskirk@calbaptist.edu

Faculty Information

The Department of Communication Arts is a supporting department in the liberal arts tradition of the University and is also a division of professional training. The department seeks to help students explore the world of creativity and the human spirit as expressed through theatre, speech, journalism, and public relations. The Department includes the disciplines of Communication Arts.

The Communication curriculum seeks to develop students' creativity and expressive abilities, improve everyday conversation, develop written and oral skills, and provide opportunity to gain experience in drama and theatrical production.

Communication Studies, BA

Traditional Major Program Requirements (36 units)

Students in the Communication Studies major will demonstrate proficiency in creating, developing and delivering presentations of communicative merit, utilizing critical thought, and the integration of a broad worldview. The Communication Studies major will further exhibit creativity, confidence, and competence via nationally accepted communicative principles and techniques.

Lower Division Requirements

- COM 113 - Oral Communication

Upper Division Requirements

- COM 308 - Interpersonal Communications
- COM 340 - Rhetoric and Persuasion
- COM 403 - Communication Theory
- COM 425 - Organizational Communication

Concentration Requirements (21 units)

Students must complete all requirements in one of the following concentrations: Digital Communication; Speech Communication

Digital Communication

- COM 420 - Strategic Communication and Global Engagement
- COM 430 - Communication Research and Methods
- JRN 150 - Media and Society
- JRN 370 - Social Media Strategies

Digital Communication Additional Requirements

Complete nine (9) additional units from the following:

- COM 306 - Small Group Communication
- COM 400 - Special Topics in Communication Studies
- COM 435 - Gender and Communication
- COM 450 - Internship in Communication Studies
- ENG 382 - Introduction to Digital Studies
- JRN 325 - Principles of Podcasting and Broadcasting
- PRL 300 - Public Relations

Speech Communication

- COM 210 - Forensic Workshop
- COM 306 - Small Group Communication
- COM 333 - Oral Interpretation and Readers Theatre
- COM 401 - Argumentation and Debate
- COM 405 - Rhetorical Criticism

Speech Communication Additional Requirements

Complete six (6) additional units from the following:

- COM 400 - Special Topics in Communication Studies
- COM 410 - Forensic Workshop
- COM 435 - Gender and Communication
- COM 450 - Internship in Communication Studies
- ICS 430 - Intercultural Communication and Practice
- PRL 300 - Public Relations
- THE 312 - Drama in the Classroom

- THE 313 - Advanced Makeup
- THE 340 - Drama in the Church

Journalism and New Media, BA

Traditional Major Program Requirements (45 units)

The Journalism and New Media major seeks to develop students' skills in writing and multimedia storytelling through professional-level research and investigation, interviewing and reporting, explanatory and analytical media writing, editing, layout and design, and media law and ethical issues.

Lower Division Requirements

- JRN 150 - Media and Society
- JRN 170 - Writing for Mass Media
- JRN 210 - Photojournalism
- JRN 215 - News Production for Broadcast and Print Journalism
- JRN 254 - Publication Layout and Design

Upper Division Requirements

- JRN 312 - Magazine and Feature Writing
- JRN 315 - News Reporting
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 349 - Editing for Print and Online Media
- JRN 415 - Advanced News Production for Broadcast and Print Journalism
- JRN 430 - Multimedia Reporting, Editing, and Producing

Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: Broadcast Journalism; Photojournalism; Writing and Publishing

Broadcast Journalism

- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 360 - Audio and Video Newsgathering

- JRN 400 - Special Topics in Journalism **OR**
- JRN 450 - Internship in Journalism (3 units)

- JRN 470 - Reporting and Producing for Broadcast Media

Photojournalism

- JRN 310 - Advanced Photojournalism

- JRN 400 - Special Topics in Journalism *OR*
- JRN 450 - Internship in Journalism (3 units)

- JRN 410 - Editing for Photojournalism
- JRN 414 - Visual Documentary Reporting

Writing and Publishing

- JRN 370 - Social Media Strategies
- JRN 440 - Writing Columns and Blogs
- JRN 460 - Investigative Reporting
- PRL 302 - Public Relations Writing

Public Relations, BA

Traditional Major Program Requirements (45 units)

The Public Relations major seeks to develop students' skills in professional-level public relations work, including social media, event planning, media relations, campaigns for non-profits and businesses, public relations strategies, and public relations writing.

Lower Division Requirements

- JRN 150 - Media and Society
- JRN 170 - Writing for Mass Media
- JRN 254 - Publication Layout and Design
- PRL 202 - Introduction to Public Relations

Upper Division Requirements

- JRN 312 - Magazine and Feature Writing
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 349 - Editing for Print and Online Media
- JRN 412 - Advanced Magazine and Yearbook Production
- PRL 300 - Public Relations
- PRL 302 - Public Relations Writing
- PRL 402 - Public Relations Research and Campaigns

Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: New Media; Reputation Management

New Media

- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 360 - Audio and Video Newsgathering
- JRN 370 - Social Media Strategies

- JRN 415 - Advanced News Production for Broadcast and Print Journalism *OR*
- JRN 450 - Internship in Journalism (3 units)

Reputation Management

- COM 425 - Organizational Communication

- JRN 415 - Advanced News Production for Broadcast and Print Journalism *OR*
- JRN 450 - Internship in Journalism (3 units)

- PRL 310 - Public Relations Issues and Crisis Management
- PRL 320 - Business Literacy for Public Relations Professionals

Theatre, BA

Traditional Major Program Requirements (51-54 units)

Students in the Theatre major will demonstrate their ability to prepare and present theatrical skills in the areas of design and production utilizing a variety of nationally recognized techniques.

Lower Division Requirements

- THE 111 - Fundamentals of Stagecraft
- THE 113 - Makeup for Stage and Screen
- THE 183 - Acting I: Fundamentals of Acting
- THE 211 - Introduction to Stage Design and Management
- THE 232 - Play Structure and Analysis

Lower Division Performance Practicum Requirement

Complete three (3) units from the following:

- THE 163 - Production Practicum: Performance
- THE 263 - Production Practicum: Performance

Lower Division Technical Practicum Requirement

Complete three (3) units from the following:

- THE 164 - Production Practicum: Technical
- THE 264 - Production Practicum: Technical

Upper Division Requirements

- THE 332 - Theatre History I
- THE 342 - Theatre History II
- THE 353 - Directing I
- THE 498 - Capstone Portfolio

Upper Division Performance Practicum Requirement

Complete three (3) units from the following:

- THE 363 - Production Practicum: Performance
- THE 463 - Production Practicum: Performance

Upper Division Technical Practicum Requirement

Complete three (3) units from the following:

- THE 364 - Production Practicum: Technical
- THE 464 - Production Practicum: Technical

Concentration Courses (15-18 units)

Students must complete all requirements in one of the following concentrations: Design/Technical Theatre; Performance

Design/Technical Theatre (15 units)

Lower Division Requirement

- THE 221 - Techniques in Pre-Visualization of Design

Upper Division Elective Requirements

Complete twelve (12) upper division units from the following:

- THE 313 - Advanced Makeup
- THE 431 - Advanced Design: Lighting
- THE 432 - Advanced Design: Scenery
- THE 433 - Advanced Design: Sound
- THE 434 - Advanced Design: Costume
- THE 435 - Moving Light Programming

Performance (18 units)

Core Requirements

- THE 123 - Voice and Diction for the Stage

- THE 223 - Movement for the Stage **OR**
- THE 233 - Introduction to Musical Theatre Dance

- THE 283 - Acting II: Scene Study
- THE 383 - Acting III: Acting Shakespeare
- THE 483 - Acting IV: Departures from Realism

Upper Division Elective Requirement

Complete three (3) additional units from the following:

- THE 313 - Advanced Makeup
- THE 330 - Advanced Acting for the Camera

- THE 345 - Applied Theatre
- THE 431 - Advanced Design: Lighting
- THE 432 - Advanced Design: Scenery
- THE 433 - Advanced Design: Sound
- THE 434 - Advanced Design: Costume
- THE 435 - Moving Light Programming
- THE 441 - Auditioning

Communication Studies Minor

Traditional Minor Program Requirements (21 units)

Lower Division Requirements

Forensic Workshop Requirements

Complete three (3) units from the following:

- COM 210 - Forensic Workshop

Additional Lower Division Requirement

- COM 113 - Oral Communication

Upper Division Requirements

Complete fifteen (15) units from the following:

- COM 306 - Small Group Communication
- COM 308 - Interpersonal Communications
- COM 310 /COM 410 - Forensic Workshop (6 unit max)
- COM 333 - Oral Interpretation and Readers Theatre
- COM 340 - Rhetoric and Persuasion
- COM 400 - Special Topics in Communication Studies
- COM 401 - Argumentation and Debate
- COM 403 - Communication Theory
- COM 405 - Rhetorical Criticism
- COM 425 - Organizational Communication
- COM 435 - Gender and Communication
- COM 450 - Internship in Communication Studies
- PRL 300 - Public Relations

Journalism and New Media Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- JRN 150 - Media and Society

- JRN 170 - Writing for Mass Media
- JRN 210 - Photojournalism
- JRN 215 - News Production for Broadcast and Print Journalism

Upper Division Requirements

- JRN 312 - Magazine and Feature Writing
- JRN 315 - News Reporting
- JRN 430 - Multimedia Reporting, Editing, and Producing

Upper Division Elective Requirement

Complete three (3) units from the following:

- JRN 310 - Advanced Photojournalism
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 340 - Sports Writing
- JRN 349 - Editing for Print and Online Media
- JRN 360 - Audio and Video Newsgathering
- JRN 370 - Social Media Strategies
- JRN 400 - Special Topics in Journalism
- JRN 415 - Advanced News Production for Broadcast and Print Journalism
- JRN 440 - Writing Columns and Blogs
- JRN 460 - Investigative Reporting
- JRN 470 - Reporting and Producing for Broadcast Media

Public Relations Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- JRN 150 - Media and Society
- JRN 170 - Writing for Mass Media
- PRL 202 - Introduction to Public Relations

Upper Division Requirements

- JRN 320 - Media Law, Ethics, and Copyright
- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 349 - Editing for Print and Online Media
- PRL 300 - Public Relations
- PRL 302 - Public Relations Writing

Theatre Minor

Traditional Minor Program Requirements (27 units)

Lower Division Requirements

- THE 111 - Fundamentals of Stagecraft

- THE 183 - Acting I: Fundamentals of Acting **OR**
- THE 230 - Acting for the Camera

- THE 211 - Introduction to Stage Design and Management

Lower Division Practicum Requirement

Complete three (3) units from the following:

- THE 163 - Production Practicum: Performance
- THE 164 - Production Practicum: Technical
- THE 263 - Production Practicum: Performance
- THE 264 - Production Practicum: Technical

Upper Division Elective Requirements

Twelve (12) upper division units in Theatre *

* A maximum of three (3) units from the following may be applied to the minor:

- THE 363 - Production Practicum: Performance
- THE 364 - Production Practicum: Technical
- THE 463 - Production Practicum: Performance
- THE 464 - Production Practicum: Technical

Elective Requirement

- Three (3) additional lower or upper division units in Theatre *

Division of Arts and Letters - Department of History and Government

Division of Arts and Letters

Dr. Laura Veltman
Associate Dean

Ms. Rosemary Welsh
Department Secretary
Phone 951.343.4590
FAX 951.343.4661
rwelsh@calbaptist.edu

Faculty Information

The Division of Arts and Letters consists of three departments: Communication Arts, History and Government, and Modern Languages and Literature. While most of our programs are rooted in traditional disciplines that have stood the test of time in academia, we equip our students with the necessary tools for today's global market while training them in the skills they need to conquer the challenges of tomorrow.

Department of History and Government

Dr. Christopher McHorney
Chair

Ms. Laura Egan
Department Secretary
Phone 951.343.4656
legan@calbaptist.edu

Faculty Information

The mission of the Department of History and Government is to teach students to recognize, analyze, and engage the central issues of human existence in a historical and political context and, as citizens, pursue integration of faith in learning and living. Consistent with this mission, the Department of History and Government provides a theoretical foundation and practical experience in preparation for a wide range of career opportunities. Positions in public and private education, public service, public safety, law enforcement, ministry, higher education, and graduate study in various fields including law, political science, and history are supported by the Department.

Criminal Justice, BS

Traditional Major Program Requirements (42 units)

The Criminal Justice prepares students for careers in a variety of local, state, and federal law enforcement agencies, and for graduate study in related fields.

Lower Division Requirements

- CJS 113 - Introduction to Criminal Justice
- POL 213 - American Government
- POL 223 - State and Local Government

Upper Division Requirements

- CJS 341 - Minorities and the Criminal Justice System
- CJS 401 - Crime and Delinquency
- CJS 485 - Methods of Research for Criminal Justice
- POL 485 - Constitutional Law II

Concentration Courses (21 units)

Students must complete all requirements in the Administration of Justice concentration

Administration of Justice

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- CJS 331 - Police Systems and Practices
- CJS 496 - Institutional and Community Corrections
- CJS 499 - Senior Project

Administration of Justice Elective Requirements

Complete six (6) units from the following:

- CJS 400 - Special Topics
- CJS 402 - Hate Crime
- CJS 403 - Mass Media, Culture, and Crime
- CJS 421 - Narcotics
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- CJS 497 - Comparative Criminal Justice

History, BA

Traditional Major Program Requirements (36-48 units)

The History major equips students for graduate study in history, the humanities, and secondary education. The History curriculum provides courses in two areas of study, American Studies and World Studies. Some requirements may be met through study abroad opportunities. (See the Education section for the Professional Methods Program for Single Subject Credential Students.)

Lower Division Requirements

- HIS 213 - History of the United States to Reconstruction
- HIS 223 - History of the United States since the Civil War
- HUM 213 - Humanities I
- HUM 223 - Humanities II

Upper Division Requirements

- HIS 490 - Historiography
- HIS 499 - Senior Project

American History Elective Requirement

Complete three (3) units from the following:

- HIS 311 - Minorities in America
- HIS 383 - The West in American History
- HIS 393 - History of California
- HIS 401 - Special Topics in U.S. History
- HIS 472 - Colonial America, 1607-1787
- HIS 474 - Early American Republic, 1787-1848
- HIS 475 - The Civil War and Its Political Crises, 1848-1865
- HIS 476 - The Emergence of Modern America, 1865-1919
- HIS 478 - Modern America, 1920-1989

European History Elective Requirement

Complete three (3) units from the following:

- HIS 333 - Nineteenth Century Europe
- HIS 343 - Twentieth Century Europe
- HIS 353 - Renaissance and Reformation Europe
- HIS 360 - Enlightenment Europe
- HIS 363 - History of England to 1688
- HIS 373 - History of England since 1688
- HIS 403 - Special Topics in European History
- HIS 435 - The Holocaust: Historiographic, Philosophic and Religious Perspectives
- HIS 436 - Ethics After the Holocaust
- HIS 437 - Studies in the Holocaust: Perpetrators and Victims, Rescuers, and Bystanders

World History Elective Requirement

Complete three (3) units from the following:

- HIS 305 - History of China
- HIS 315 - Latin American History
- HIS 325 - Non-Western Culture and History
- HIS 404 - Special Topics in World History
- HIS 420 - The Classical World
- HIS 423 - Medieval Civilization
- HIS 430 - Cross and the Crescent

Upper Division Elective Requirements

Complete nine (9) additional upper division units in History.*

*Students may also apply the following to the upper division history elective requirement:

- CST 360 - Church History
- HUM 325 - Culture and the Museum
- HUM 335 - The Holocaust and the Humanities
- PHI 301 - History of Western Philosophy I

- PHI 302 - History of Western Philosophy II
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 427 - American Political Theory
- POL 429 - Critical Political Philosophy and Postmodernism
- POL 443 - Diplomatic History of the United States

Optional Concentration in Holocaust Studies (12 units)

Complete twelve (12) units from the following:

The Holocaust studies concentration requires the completion of twelve (12) units beyond the major.

- HIS 343 - Twentieth Century Europe
- HIS 435 - The Holocaust: Historiographic, Philosophic and Religious Perspectives
- HIS 436 - Ethics After the Holocaust
- HIS 437 - Studies in the Holocaust: Perpetrators and Victims, Rescuers, and Bystanders
- HUM 335 - The Holocaust and the Humanities

International Studies, BA

Traditional Major Program Requirements (54 units)

International Studies is an interdisciplinary major that helps prepare students to work with for-profit and non-profit organizations, government agencies, or ministries that have a global footprint. In addition to completing an interdisciplinary core, International Studies majors will select a discipline-specific concentration and satisfy a cross-cultural experience requirement.

Lower Division Requirements

- ANT 225 - Cultural Anthropology
- BUS 218 - Macroeconomics
- ICS 105 - Introduction to Global Studies
- POL 250 - Introduction to International Politics
- POL 255 - Introduction to Comparative Politics

Upper Division Requirements

- ANT 350 - Language and Culture
- ENG 463 - Language Structure and Acquisition
- HIS 325 - Non-Western Culture and History
- ICS 430 - Intercultural Communication and Practice
- POL 395 - Political Economy
- POL 415 - World Geography
- POL 437 - Globalization
- POL 450 - Research Methods in Political Science
- POL 499 - Senior Project

Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: International Business; International Relations; Global Ministry

International Business

- BUS 334 - International Business
- BUS 454 - International Management
- MKT 333 - Principles of Marketing
- MKT 444 - International Marketing

International Relations

- POL 350 - International Relations Theory
- POL 439 - International Conflict
- POL 444 - International Law
- POL 454 - International Organizations

Global Ministry

- ICS 305 - Global Christianity
- ICS 375 - Current Events and Movements
- ICS 410 - Global and Urban Ministries
- PHI 353 - Comparative Religions

Cross Cultural Experience Requirement

Students may satisfy the Cross Cultural Experience Requirement with a semester long education and/or ministry experience in a foreign country or International Service Projects in two different countries. The chair of the Department of History and Government must approve all cross cultural experiences used by students to meet this requirement.

General Education Requirement

Complete the foreign language competency requirement with a modern foreign language.

Political Science with Pre-Law Emphasis, BA

Traditional Major Program Requirements (42 units)

The Political Science Major with an emphasis in Pre-Law is a partnership 3+3 program between California Baptist University and Trinity Law School. The program provides students majoring in Political Science with the opportunity to prepare themselves to succeed in law school and to complete a baccalaureate degree and Doctor of Jurisprudence degree in six years. Trinity Law School is accredited by the Committee of Bar Examiners of the State Bar of California.

Lower Division Requirements

- POL 213 - American Government
- POL 223 - State and Local Government

Upper Division Requirements

- POL 431 - Christianity and Citizenship
- POL 450 - Research Methods in Political Science
- POL 499 - Senior Project

Pre-Law Requirements

- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic
- PHI 323 - Ethics
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship (3 units)
- POL 484 - Constitutional Law I

Political Philosophy Requirement

Complete six (6) units from the following:

- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 429 - Critical Political Philosophy and Postmodernism

Additional 3+3 Program Requirements

Maintain a minimum 3.0 cumulative grade point average to sustain candidacy in the 3+3 program.
Complete all CBU residency and general education requirements *
Complete all requirements for the Political Science Major with a Pre-Law Emphasis *
Complete a minimum of ninety-eight (98) semester units of undergraduate study. *
Receive an LSAT score of 143 or higher by the first semester of the junior year
Complete the Trinity Law School application process by the first semester of the junior year

* Requirement must be satisfied prior to transfer to Trinity Law School.

Transfer Course 3+3 Program Requirements

Successfully complete and transfer the first year legal studies coursework from Trinity Law School *

* A maximum of thirty (30) units may be transferred and are subject to the transfer restriction policies. Coursework completed at Trinity Law School will not be computed into the California Baptist University grade point average.

Political Science, BA

Traditional Major Program Requirements (40 units)

The Political Science major provides students with theoretical foundations and practical experience in preparation for opportunities available in the fields of political science and public administration, including career positions with local, state and federal governments; fellowship posts for graduate and legal studies; careers in education and various levels of political leadership. Students are encouraged to seek internship opportunities through the department. (See the Single Subject Credential section for the Professional Methods Program for Single Subject Credential Students.)

Lower Division Requirement

- POL 101 - Introduction to the Political Science Discipline
- POL 213 - American Government

Lower Division Elective Requirements

Complete three (3) units from the following:

- POL 223 - State and Local Government
- POL 250 - Introduction to International Politics
- POL 255 - Introduction to Comparative Politics

Upper Division Requirements

- POL 431 - Christianity and Citizenship
- POL 450 - Research Methods in Political Science
- POL 499 - Senior Project

American Institutions and Processes Elective Requirement

Complete three (3) units from the following:

- PAD 465 - Policy Process and Analysis
- POL 323 - Political Parties and Interest Groups
- POL 390 - Congress and the Presidency
- POL 395 - Political Economy
- POL 435 - Campaigns and Elections
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

International Relations Elective Requirement

Complete three (3) units from the following:

- POL 350 - International Relations Theory
- POL 415 - World Geography
- POL 437 - Globalization
- POL 439 - International Conflict
- POL 443 - Diplomatic History of the United States
- POL 444 - International Law
- POL 454 - International Organizations
- POL 471 - Terrorism

Political Philosophy Elective Requirement

Complete three (3) units from the following:

- POL 395 - Political Economy
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 427 - American Political Theory

- POL 429 - Critical Political Philosophy and Postmodernism

Pre-Law Elective Requirement

Complete three (3) units from the following:

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- PAD 453 - Administrative Law and Bureaucracy

- PHI 300 - Logic **OR**
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 444 - International Law
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

Public Administration Elective Requirement

Complete three (3) units from the following:

- PAD 451 - Executive Leadership and Management
- PAD 453 - Administrative Law and Bureaucracy
- PAD 465 - Policy Process and Analysis
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy

Concentration Courses (9 units)

Students must complete at least nine (9) units, not completed in the core, in one of the following concentrations: American Institutions and Processes; International Relations; Political Philosophy; Pre-Law; Public Administration. Political Science majors may not use any one course to satisfy two or more concentration requirements.

American Institutions and Processes

Complete nine (9) units from the following:

- PAD 465 - Policy Process and Analysis
- POL 323 - Political Parties and Interest Groups
- POL 390 - Congress and the Presidency
- POL 395 - Political Economy
- POL 435 - Campaigns and Elections
- POL 445 - American Institutions and Processes Internship
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

International Relations

Complete nine (9) units from the following:

- POL 350 - International Relations Theory
- POL 415 - World Geography
- POL 437 - Globalization
- POL 439 - International Conflict
- POL 443 - Diplomatic History of the United States
- POL 444 - International Law
- POL 446 - International Relations Internship
- POL 454 - International Organizations
- POL 471 - Terrorism

Political Philosophy

Complete nine (9) units from the following:

- POL 395 - Political Economy
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 427 - American Political Theory
- POL 429 - Critical Political Philosophy and Postmodernism

Pre-Law

Complete nine (9) units from the following:

Recommend completion of POL 484 and POL 485

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- PAD 453 - Administrative Law and Bureaucracy

- PHI 300 - Logic **OR**
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship
- POL 444 - International Law
- POL 484 - Constitutional Law I
- POL 485 - Constitutional Law II

Public Administration

Complete nine (9) units from the following:

- PAD 451 - Executive Leadership and Management
- PAD 453 - Administrative Law and Bureaucracy
- PAD 465 - Policy Process and Analysis
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy
- POL 447 - Public Administration Internship

Classics Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- GRK 213 - Introduction to Koiné Greek I
- GRK 223 - Introduction to Koiné Greek II
- LAT 115 - Latin I
- LAT 125 - Latin II

Upper Division Requirements

- ENG 323 - Classical Literature
- HIS 420 - The Classical World
- PHI 301 - History of Western Philosophy I
- POL 423 - Classical Political Philosophy

Criminal Justice Minor

Traditional Minor Program Requirements (21 units)

Lower Division Requirement

- CJS 113 - Introduction to Criminal Justice

Upper Division Requirements

- CJS 301 - Fundamentals of Criminal Law
- CJS 331 - Police Systems and Practices
- CJS 496 - Institutional and Community Corrections

Upper Division Elective Requirements

Complete nine (9) additional units from the following:

- CJS 321 - Courts and Criminal Procedures
- CJS 341 - Minorities and the Criminal Justice System
- CJS 400 - Special Topics
- CJS 401 - Crime and Delinquency
- CJS 402 - Hate Crime
- CJS 403 - Mass Media, Culture, and Crime
- CJS 421 - Narcotics
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- CJS 485 - Methods of Research for Criminal Justice
- CJS 497 - Comparative Criminal Justice
- PAD 493 - Principles of Public Administration

History Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- HIS 213 - History of the United States to Reconstruction
- HIS 223 - History of the United States since the Civil War
- HUM 213 - Humanities I
- HUM 223 - Humanities II

Upper Division Requirement

- HIS 490 - Historiography

Upper Division Elective Requirements

Nine (9) additional upper division units in History

Note

Students may also apply the following to the upper division history elective requirement.

- HUM 325 - Culture and the Museum
- HUM 335 - The Holocaust and the Humanities
- PHI 301 - History of Western Philosophy I
- PHI 302 - History of Western Philosophy II
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 427 - American Political Theory
- POL 429 - Critical Political Philosophy and Postmodernism
- POL 443 - Diplomatic History of the United States

Humanities Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirements

- HUM 213 - Humanities I
- HUM 223 - Humanities II

Upper Division Requirements

- HIS 325 - Non-Western Culture and History
- HUM 325 - Culture and the Museum
- HUM 335 - The Holocaust and the Humanities
- HUM 400 - Special Topics in Humanities

Political Science Minor

Traditional Minor Program Requirements (21 units)

Lower Division Requirements

- POL 213 - American Government
- POL 223 - State and Local Government

Upper Division Requirements

- POL 395 - Political Economy
- Complete twelve (12) upper division units in Political Science

Pre-Law Certificate

Traditional Certificate Program Requirements (36 units)

The department strongly recommends a double major in Political Science and Philosophy for those students who are planning to enter law school. The department also offers a Pre-Law certificate program, and provides a full range of counseling services in preparation for law school. The Pre-Law certificate offers a specific series of courses intended to prepare students for both the LSAT and law school. The Pre-Law certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. Students can also receive active advice for the LSAT examination. Dr. James Bishop serves as the Pre-Law program advisor.

Lower Division Requirements

- POL 213 - American Government
- POL 223 - State and Local Government

Upper Division Requirements

- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic
- PHI 323 - Ethics
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship (3 units)
- POL 484 - Constitutional Law I

Upper Division Elective Requirements

Complete six (6) units from the following:

- PHI 363 - Metaphysics
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- POL 429 - Critical Political Philosophy and Postmodernism

Upper Division Breadth Elective Requirement

Complete one course from the following that is not included in the student's general education core curriculum:

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 413 - Shakespeare Studies
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 460 - Modern and Contemporary British Literature

Public Administration Certificate

Traditional Certificate Program Requirements (18 units)

Designed primarily for government employees and persons seeking employment in the public sector, the program for a certificate in Public Administration provides both practical and theoretical training in this field. The Public Administration certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.

Certificate Requirements

- PAD 451 - Executive Leadership and Management
- PAD 453 - Administrative Law and Bureaucracy
- PAD 465 - Policy Process and Analysis
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy

Division of Arts and Letters - Department of Modern Languages and Literature

Division of Arts and Letters

Dr. Laura Veltman
Associate Dean

Ms. Rosemary Welsh
Department Secretary
Phone 951.343.4590
FAX 951.343.4661
rwelsh@calbaptist.edu

Faculty Information

The Division of Arts and Letters consists of three departments: Communication Arts, History and Government, and Modern Languages and Literature. While most of our programs are rooted in traditional disciplines that have stood the test of time in academia, we equip our students with the necessary tools for today's global market while training them in the skills they need to conquer the challenges of tomorrow.

Department of Modern Languages and Literature

Dr. James Lu
Chair

Ms. Rosemary Welsh
Department Secretary
Phone 951.343.4590
FAX 951.343.4661
rwelsh@calbaptist.edu

Faculty Information

The Modern Languages and Literature Department offers a variety of courses in language acquisition, composition, literature, critical theory, cultural studies, linguistics, digital literary studies, and creative writing.

The English and Creative Writing Programs are dedicated to fostering students' interests and abilities. English and Creative Writing provide students across disciplines with dynamic General Education opportunities to develop foundations in reading, writing, critical thinking, and interpretation. English and Creative Writing majors are drawn to our undergraduate curriculum because it prepares them for future careers embracing a wide range of professions and ministries: to become teachers in secondary education; to go into journalism, library science, or publishing; to embark on Christian missions; to work in commerce, industry, and government; to succeed as creative writers; or to further education by attending graduate schools of law, medicine, business, literature, etc. As a double-major or minor, English and Creative Writing provides students a valuable means of enriching their future professions. The department also offers a master's program in English. Liberal Studies majors may seek a concentration in English, which affords them an area of specialization within the Multiple Subjects credential. Students interested in teaching English at secondary schools or to speakers of other languages are encouraged to contact program instructors or advisors.

The program in Spanish currently serves students seeking a major or minor in Spanish as well as fulfilling General Education requirements. Our primary goal is to enable students, through carefully-designed course sequences, to gain a bilingual proficiency and multicultural adaptability so that they are well-equipped for future professional and ministerial careers where linguistic and cultural knowledge in Spanish is imperative. Lower-division courses train students in basic communication skills. Upper-division classes guide students into areas where special attention goes to interactions between and among language, history, culture, politics, economics, psychology and all other aspects of real life. Students who have taken two or more years of Spanish in high school or college may choose to take a placement test administered by the department in order to be exempt from lower-division requirements. (Note: in this case, however, no credit shall be given for placing out of lower-division courses.) For those who begin the program with a

linguistic ability above the intermediate level, it is wise to consult program instructors or advisors for an appropriate, well-constructed academic plan.

Creative Writing, BFA

Traditional Major Program Requirements (51-52 units)

The Creative Writing major allows students to write fiction and poetry in multi-tiered workshops that culminate in a final writing project of publishable quality. The program offers instruction in other genres of writing and in literary editing and publishing, and it includes substantial coursework in literature. The skills students acquire in this program will equip them for all types of careers where keen, lucid writing is expected, whether analytical, editorial, or creative. This program also prepares students for graduate study in both Creative Writing and English.

Lower Division Requirements

- ENG 101 - Introduction to the Discipline
- ENG 201 - Introduction to Literature
- ENG 273 - Introduction to Creative Writing

Lower Division Elective Requirements

Complete six (6) units from the following:

- ENG 213 - British Literature Pre-1750
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865
- ENG 243 - American Literature Post-1865
- ENG 253 - World Literature Pre-1650
- ENG 263 - World Literature Post-1650

Upper Division Requirements

- ENG 431 - Literary Journal Editing and Publishing
- ENG 498 - Capstone in Creative Writing

Upper Division Creative Writing Requirements

Complete one of the following sequences:

- ENG 384 - Writing Fiction
- ENG 484 - Advanced Fiction Writing
  OR
- ENG 385 - Writing Poetry
- ENG 485 - Advanced Poetry Writing

Upper Division Creative Writing Elective Requirements

Complete six (6) additional creative writing units from the following:

- ENG 384 - Writing Fiction

- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing

Upper Division Writing Elective Requirement

Complete three (3) additional creative writing units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- JRN 312 - Magazine and Feature Writing
- THE 424 - Scriptwriting

Upper Division Editing, Language, and Theory Elective Requirements

Complete six (6) units from the following:

- COM 405 - Rhetorical Criticism
- ENG 401 - Literary Theory and Criticism
- ENG 454 - Writing in Context
- ENG 463 - Language Structure and Acquisition
- JRN 349 - Editing for Print and Online Media
- PHI 312 - Aesthetics

Upper Division Literature Elective Requirements

Complete six (6) units of literature from the following:

- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 355 - Folklore and Fairy Tales
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 400 - Special Topics in English
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature

- ENG 443 - Contemporary American Literature
- ENG 460 - Modern and Contemporary British Literature

Upper Division Literature and the Arts Elective Requirements

Complete five to six (5-6) additional units from the following:

- ART 346 - History of Modern Painting
- ART 385 - Film as Visual Art
- COM 333 - Oral Interpretation and Readers Theatre
- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 400 - Special Topics in English
- ENG 401 - Literary Theory and Criticism
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 463 - Language Structure and Acquisition
- FLM 350 - Film and Literature
- FLM 470 - Adaptation and Intertextuality
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- THE 332 - Theatre History I
- THE 342 - Theatre History II

English, BA

Major Program Requirements (43-55 units)

English majors actively engage with literature from classical to contemporary authors. The program cultivates close analysis of literary texts and relevant contexts as well as develops students' skills in mindful interpretation through the study and application of literary theory. Students reflect upon and respond to literature from diverse cultures, perspectives, and genres, discussing literature in terms of their own worldview as well as Biblical principles. The English major prepares students for careers in a wide range of professions and ministries including secondary education; writing, editing, and publishing; commerce, industry, and government; and graduate study. Students

interested in English Subject Matter Competence should contact the program advisor. English majors are encouraged to consult and collaborate with program instructors to develop the best approach to their studies.

Introductory Concepts and Approaches

- ENG 100 - Introduction to Technology in Literary Studies *OR*
- ENG 101 - Introduction to the Discipline
- ENG 201 - Introduction to Literature
- ENG 213 - British Literature Pre-1750 **OR**
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865 **OR**
- ENG 243 - American Literature Post-1865
- ENG 253 - World Literature Pre-1650 **OR**
- ENG 263 - World Literature Post-1650 *OR*
- ENG 273 - Introduction to Creative Writing

Foundations in Literary Studies and Traditions

- ENG 401 - Literary Theory and Criticism
- ENG 413 - Shakespeare Studies **OR**
- ENG 323 - Classical Literature

Professional Development

* ENG 463 is required for students completing the optional TESOL concentration.

- ENG 302 - Professional Writing **OR**
- ENG 382 - Introduction to Digital Studies *OR*
- ENG 350 - Research and Writing in Literature and Language
- ENG 454 - Writing in Context **OR**
- ENG 463 - Language Structure and Acquisition *
- ENG 499 - Capstone Project

American Literature

Complete three (3) units from the following:

- ENG 345 - Nineteenth Century American Literature
- ENG 420 - Special Topics in American Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature

British Literature

Complete three (3) units from the following:

- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 430 - Special Topics in British Literature
- ENG 460 - Modern and Contemporary British Literature

Diverse Perspectives

Complete three (3) units from the following:

- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature

Christian Literary Studies

Complete three (3) units from the following:

- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature

Elective Requirements

Complete three (3) additional units from the following, which have not previously been taken:

- ENG 302 - Professional Writing
- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- ENG 399 - Independent Study
- ENG 400 - Special Topics in English
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 460 - Modern and Contemporary British Literature
- ENG 491 - Internship

Optional Concentrations (12 units)

Students can earn optional concentration in one of the following areas: Children's Literature; Creative Writing; Digital Literary Studies; TESOL

*Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major. Students are not eligible to complete a minor and a concentration in the same subject (i.e. Children's Literature; Creative Writing; Writing and Digital Studies/Digital Literary Studies; TESOL).

Children's Literature

Upper Division Requirements

- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature

Creative Writing

Upper Division Requirements

Complete nine (9) upper division units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing

Upper Division Writing Elective Requirement

Complete three (3) additional upper division units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- JRN 312 - Magazine and Feature Writing
- THE 424 - Scriptwriting

Digital Literary Studies

Upper Division Requirements

- ENG 302 - Professional Writing **OR**
- ENG 382 - Introduction to Digital Studies

Upper Division Digital Literary Studies Elective Requirements

Complete six (6) additional upper division units from the following:

- ENG 431 - Literary Journal Editing and Publishing
- ENG 454 - Writing in Context
- ENG 491 - Internship

Additional Upper Division Elective Requirement

Complete three (3) additional upper division units from the following:

- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 399 - Independent Study
- ENG 400 - Special Topics in English
- ENG 409 - Good Books
- ENG 431 - Literary Journal Editing and Publishing
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 491 - Internship

TESOL (Teaching English to Speakers of Other Languages)

*Students completing the TESOL concentration must complete ENG 463 within the Professional Development core of the English major.

Upper Division Requirements

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 472 - Theory and Methods of TESOL

Liberal Arts, BA

Traditional Major Program Requirements (97-109 units)

The liberal arts major exposes students to the breadth and depth of human knowledge through study of the humanities and sciences as well as through specialization in one or more concentrations. Students are well prepared to think deeply and creatively, developing the intellectual flexibility to explore and evaluate a wide range of problems and solutions from multiple perspectives, including a biblical worldview. Students in this major are equipped to serve in local and

global contexts as well-rounded citizens whose interdisciplinary skills and knowledge enable them to contribute to human flourishing.

Introduction to the Liberal Arts

- LBA 101 - Introduction to the Liberal Arts

Foundations

- HUM 213 - Humanities I
- HUM 223 - Humanities II

- WLD 181 - Goodness, Truth and Beauty *OR*
- PHI 213 - Introduction to Philosophy *OR*
- PHI 233 - Basic Reasoning

- ENG 201 - Introduction to Literature

- ART 241 - Global History of Art: Ancient to Medieval *OR*
- ART 242 - Global History of Art: Renaissance to Contemporary *OR*
- FLM 105 - Introduction to Film

- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey

History and Society

- HIS 2xx course *OR*
- POL 2xx course *OR*
- ANT 225 - Cultural Anthropology *OR*
- BUS 212 - Economics, Life, and Society *OR*
- BUS 218 - Macroeconomics *OR*
- PSY 213 - General Psychology *OR*
- SOC 213 - Introduction to Sociology

- Upper Division HIS course
- Upper Division POL course
- Three (3) additional units of HIS or POL

Languages

Complete twelve (12) units from the following areas; at least six (6) units must have the same prefix:

- CIS 268 - Computer Programming Languages
- ASL
- CHI
- FRE
- GRK
- HEB
- LAT

- RUS
- SPA

Literature

- ENG 2xx (one course, excluding ENG 200)

Complete nine (9) units from the following:

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 463 - Language Structure and Acquisition

Mathematics

- MAT 123 - Survey of Mathematics

Mathematics Additional Requirements

Complete nine (9) units from the following:

- MATxxx (MAT 115 or higher, excluding MAT 123)
- STA 144 - Introduction to Statistics

Science

Select twelve (12) units from at least two of the following areas (prefixes):

- BIO

- CHE
- ENV
- PHY

Capstone

This capstone can be co-located or replaced with another three (3) units capstone course with instructor and department chair approval.

- LBA 499 - Capstone

Concentration Courses (12 units) Optional Second Concentration (12 units)

Students must select at least one concentration of twelve (12) upper division units in one of the following areas: Art History; American Studies; American Sign Language; Anthropology; Biology; British Studies; Business Administration; Chemistry; Children's Literature; Christian Behavioral Science; Christian Studies; Communications; Criminal Justice; Creative Writing; Early Childhood Studies; English Language and Literature; Entrepreneurship; Environmental Science; European Studies; Film Studies; Global Studies; History; Humanities; Intercultural Studies; Journalism and News Media; Kinesiology; Leadership; Marketing; Mathematics; Music; Philosophy; Political Science; Psychology; Public Relations; Real Estate Management; Science, Sociology; Social Work; Spanish; Spanish for Teachers; Statistics; Teaching English to Speakers of Other Languages (TESOL); Visual Media; Worship Arts; Writing. Students may not use any courses for both the core and concentration requirements.

Students have the option of selecting a second concentration of twelve (12) upper division units, but may not reuse any courses from the core and first concentration.

Art History

Complete twelve (12) units from the following:

(Students should plan to take ART 241 or 242 in the Foundations core.)

- ART 345 - Nineteenth Century Art History
- ART 346 - History of Modern Painting
- ART 347 - Contemporary Art History
- ART 351 - Museum Studies
- ART 361 - Art of Latin America
- ART 371 - Art of Southeast Asia
- ART 381 - Women in the Arts
- ART 412 - Topics in Art History
- ART 430 - Art and the Bible

American Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ASL 415 - American Deaf Culture
- ENG 313 - American Multicultural Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 420 - Special Topics in American Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- HIS 383 - The West in American History

- HIS 393 - History of California
- HIS 401 - Special Topics in U.S. History
- HIS 472 - Colonial America, 1607-1787
- HIS 474 - Early American Republic, 1787-1848
- HIS 475 - The Civil War and Its Political Crises, 1848-1865
- HIS 476 - The Emergence of Modern America, 1865-1919
- HIS 478 - Modern America, 1920-1989
- MSL 451 - Seminar in Military History
- POL 323 - Political Parties and Interest Groups
- POL 390 - Congress and the Presidency
- POL 427 - American Political Theory
- POL 435 - Campaigns and Elections
- SOC 323 - Marriage and the Family
- SOC 345 - Race and Ethnicity

American Sign Language

Complete twelve (12) units from the following:

(Students should plan to take ASL 225 in the Languages core.)

- ASL 315 - Deaf Studies
- ASL 325 - American Sign Language Linguistics
- ASL 415 - American Deaf Culture
- ASL 425 - Introduction to Interpreting for the Deaf
- CST 307 - Deaf Ministry

Anthropology

Complete twelve (12) upper division units in ANT.

Biology

Complete twelve (12) upper division units in BIO.

(Students should plan to take BIO 146 in the Science core.)

British Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- CJS 497 - Comparative Criminal Justice
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 413 - Shakespeare Studies
- ENG 430 - Special Topics in British Literature
- ENG 460 - Modern and Contemporary British Literature
- HIS 363 - History of England to 1688
- HIS 373 - History of England since 1688

Business Administration

Complete twelve (12) upper division units in BUS.

Chemistry

Complete twelve (12) upper division units in CHE.

(Students should plan to take CHE 115, 115L, 125, and 125L in the Science core.)

Children's Literature

- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature

Christian Behavioral Science

Complete twelve (12) upper division units in CBS.

Christian Studies

Complete twelve (12) upper division units in CST.

Communications

Complete twelve (12) units from the following:

- COM 306 - Small Group Communication
- COM 308 - Interpersonal Communications
- COM 333 - Oral Interpretation and Readers Theatre
- COM 340 - Rhetoric and Persuasion
- COM 403 - Communication Theory
- COM 425 - Organizational Communication
- COM 435 - Gender and Communication

Creative Writing

Complete twelve (12) units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- FLM 302 - Writing Short Screenplays
- FLM 403 - Writing Adapted Screenplays

Criminal Justice

Complete twelve (12) units from the following:

- CJS 301 - Fundamentals of Criminal Law
- CJS 401 - Crime and Delinquency
- CJS 403 - Mass Media, Culture, and Crime
- CJS 497 - Comparative Criminal Justice
- POL 330 - Law and Literature
- POL 485 - Constitutional Law II

Early Childhood Studies

Complete twelve (12) upper division units in ECH.

English Language and Literature

Complete twelve (12) units from the following:

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature
- ENG 314 - Global Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 345 - Nineteenth Century American Literature
- ENG 353 - Introduction to Children's Literature
- ENG 355 - Folklore and Fairy Tales
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 366 - Faith and Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- ENG 409 - Good Books
- ENG 413 - Shakespeare Studies
- ENG 420 - Special Topics in American Literature
- ENG 430 - Special Topics in British Literature
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 463 - Language Structure and Acquisition

Entrepreneurship

Complete twelve (12) upper division units in ENT.

Environmental Science

Complete twelve (12) upper division units in ENV.

(Students should plan to take ENV 101 in the Science core.)

European Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ART 345 - Nineteenth Century Art History
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 413 - Shakespeare Studies
- ENG 430 - Special Topics in British Literature
- ENG 460 - Modern and Contemporary British Literature
- HIS 333 - Nineteenth Century Europe
- HIS 343 - Twentieth Century Europe
- HIS 353 - Renaissance and Reformation Europe
- HIS 360 - Enlightenment Europe
- HIS 363 - History of England to 1688
- HIS 373 - History of England since 1688
- HIS 403 - Special Topics in European History
- HIS 420 - The Classical World
- HIS 423 - Medieval Civilization
- HIS 430 - Cross and the Crescent
- HIS 435 - The Holocaust: Historiographic, Philosophic and Religious Perspectives
- HIS 436 - Ethics After the Holocaust
- HIS 437 - Studies in the Holocaust: Perpetrators and Victims, Rescuers, and Bystanders
- MUS 301 - Survey of Music History
- PHI 301 - History of Western Philosophy I
- PHI 302 - History of Western Philosophy II
- POL 423 - Classical Political Philosophy
- POL 425 - Modern Political Philosophy
- THE 332 - Theatre History I

Film Studies

Complete twelve (12) units from the following:

- FLM 300 - National Cinema
- FLM 301 - Basic Screenwriting *
- FLM 302 - Writing Short Screenplays *
- FLM 305 - Christianity and Film
- FLM 340 - Major Directors
- FLM 350 - Film and Literature
- FLM 420 - Independent Film and Counter-Cinema
- FLM 470 - Adaptation and Intertextuality

  *Students should plan to take FLM 105 in the Foundations core.

Global Studies

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ANT 360 - Globalization and Culture

- ART 347 - Contemporary Art History *
- BUS 352 - Global Supply Chain Management
- BUS 363 - Microfinance
- COM 420 - Strategic Communication and Global Engagement
- CST 425 - Christian Social Ethics
- ENG 303 - Topics in World Literature
- ENG 314 - Global Literature
- ENT 362 - Social Entrepreneurship
- ENV 390 - Stewardship of the Environment
- HIS 305 - History of China
- HIS 315 - Latin American History
- HIS 325 - Non-Western Culture and History
- HIS 404 - Special Topics in World History
- ICS 305 - Global Christianity
- ICS 325 - Spiritual Formations for Global Engagement
- ICS 375 - Current Events and Movements
- ICS 410 - Global and Urban Ministries
- ICS 430 - Intercultural Communication and Practice
- PHI 353 - Comparative Religions
- POL 350 - International Relations Theory
- POL 395 - Political Economy
- POL 415 - World Geography
- POL 437 - Globalization
- POL 439 - International Conflict
- POL 444 - International Law
- POL 454 - International Organizations
- POL 471 - Terrorism

*Students should plan to take ART 241 or 242 in the Foundations core.

History

Complete twelve (12) upper division units in HIS.

Humanities

- HIS 325 - Non-Western Culture and History
- HUM 325 - Culture and the Museum
- HUM 335 - The Holocaust and the Humanities
- HUM 400 - Special Topics in Humanities

Intercultural Studies

Complete twelve (12) upper division units in ICS.

Journalism and News Media

Complete twelve (12) units from the following:

- JRN 312 - Magazine and Feature Writing
- JRN 320 - Media Law, Ethics, and Copyright

- JRN 325 - Principles of Podcasting and Broadcasting
- JRN 370 - Social Media Strategies
- JRN 371 - Applied Journalism Production

Kinesiology

Complete twelve (12) upper division units in KIN.

Leadership

Complete twelve (12) upper division units in LDR.

Marketing

Complete twelve (12) upper division units in MKT.

Mathematics

Complete twelve (12) upper division units in MAT.

(Students should plan to take MAT 245 in the Mathematics core.)

Music

Complete twelve (12) units from the following:

- MUS 301 - Survey of Music History
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 309 - History of Film Music
- MUS 360 - Theology, History, and Practice of Worship

Philosophy

Complete twelve (12) upper division units in PHI.

Political Science

Complete twelve (12) upper division units in POL.

Psychology

Complete twelve (12) upper division units in PSY.

Public Relations

- JRN 325 - Principles of Podcasting and Broadcasting *OR*
- JRN 370 - Social Media Strategies

- PRL 300 - Public Relations
- PRL 302 - Public Relations Writing

- PRL 310 - Public Relations Issues and Crisis Management

Real Estate Management

Complete twelve (12) upper division units in REM.

Science

Complete twelve (12) upper division units from at least two of the following areas (prefixes):

- BIO
- CHE
- ENV
- PHY

Sociology

Complete twelve (12) upper division units in SOC.

Social Work

Complete twelve (12) upper division units in SWK.

Spanish

Complete twelve (12) upper division units in SPA.

(Students should plan to take SPA 223, 230, or 233 in the Languages core.)

Spanish for Teachers

(Students should plan to take SPA 223, 230, or 233 in the Languages core.)

- SPA 324 - Iberian Civilization and Culture
- SPA 325 - Spanish Grammar in Context and Composition
- SPA 411 - Spanish-English Comparative Structures
- SPA 470 - Spanish for Education

Statistics

Complete twelve (12) upper division units in STA.

Teaching English to Speakers of Other Languages (TESOL)

This concentration earns the TESOL certificate.

(Students must take ENG 463 in the Literature core.)

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 472 - Theory and Methods of TESOL

Visual Media

Complete twelve (12) units from the following:

- ART 326 - Contemporary Art Issues *
- ART 347 - Contemporary Art History *
- ART 385 - Film as Visual Art
- ART 387 - Contemporary Visual Arts and Culture
- CJS 403 - Mass Media, Culture, and Crime
- ENG 353 - Introduction to Children's Literature
- ENG 371 - The Graphic Novel
- ENG 382 - Introduction to Digital Studies
- FLM 301 - Basic Screenwriting **
- FLM 302 - Writing Short Screenplays **
- GDM 335 - Conceptual Image Making
- GDM 354 - Mixed Reality Concept Design
- JRN 310 - Advanced Photojournalism
- JRN 410 - Editing for Photojournalism
- JRN 414 - Visual Documentary Reporting

  *Students should plan to take ART 241 or 242 in the Foundations core.
  **Students should plan to take FLM 105 in the Foundations core.

Worship Arts

Complete twelve (12) units from the following:

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs (2 units)
- MUS 360 - Theology, History, and Practice of Worship
- MUS 370 - Worship Technology
- MUS 404 - Craft of Ministry II (2 units)*
- MUS 434 - Creative Worship Planning (2 units)

  *Requires MUS 302

Writing

Complete twelve (12) units from at least two areas (prefixes) from the following courses:

- ALH 405 - Grant Writing
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- ENG 302 - Professional Writing
- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 454 - Writing in Context
- ENG 463 - Language Structure and Acquisition
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting *

- FLM 302 - Writing Short Screenplays *
- FLM 370 - Writing for Streaming Media
- FLM 403 - Writing Adapted Screenplays
- JRN 312 - Magazine and Feature Writing
- JRN 340 - Sports Writing
- JRN 349 - Editing for Print and Online Media
- JRN 440 - Writing Columns and Blogs
- PRL 302 - Public Relations Writing
- THE 424 - Scriptwriting

  *Students should plan to take FLM 105 in the Foundations core.

Spanish, BA

(also see Spanish for Healthcare Professions Minor)

Traditional Major Program Requirements (36-48 units)

The Spanish major is designed to provide students with a quality undergraduate preparation for careers in teaching, translation and interpretation while also serving as a useful preparation for missionaries, business administrators, social workers, health care professionals, journalists, and for graduate studies. Since bilingual proficiency and multicultural adaptability are an integral part of the Spanish program, students with a major, minor, or concentration in Spanish are encouraged to participate in study abroad opportunities in Spanish-speaking countries.

Prerequisites

- SPA 115 - Elementary Spanish I **AND**
- SPA 125 - Elementary Spanish II

  OR
- SPA 130 - Spanish for Heritage Speakers I

Lower Division Requirements

*Replace with upper division units in Spanish if exempted by exam or assessment.

**Replace with upper division units in Spanish for students fluent in the Spanish Language.

- SPA 213 - Intermediate Spanish I **AND**
- SPA 223 - Intermediate Spanish II

  OR
- SPA 230 - Spanish for Heritage Speakers II * **AND**
- Three (3) additional units in Spanish

- SPA 233 - Intermediate Conversational Spanish **

Upper Division Requirements

- HIS 315 - Latin American History
- SPA 324 - Iberian Civilization and Culture
- SPA 325 - Spanish Grammar in Context and Composition
- SPA 345 - Survey of Iberian Literature I
- SPA 365 - Survey of Iberian Literature II

- SPA 414 - Latin American Literature I
- SPA 424 - Latin American Literature II
- SPA 499 - Capstone
- Three (3) additional upper division units in Spanish

Optional Concentrations (12 units*)

Students can earn optional concentration in one of the following areas: Hispanic Literature and Film; Spanish Teaching

*Completing the Hispanic Literature and Film optional concentration requires the completion of twelve (12) distinct units beyond the major.

Hispanic Literature and Film*

*Students can earn an optional concentration in Hispanic Literature and Film by completing the Hispanic Literature and Film certificate requirements. The Hispanic Literature and Film certificate is issued by the Office of the University Registrar upon student request and completion of these courses.

Upper Division Requirements

- SPA 330 - Hispanic Literature and Film
- SPA 339 - Modern Mexican Literature and Film

Additional Upper Division Requirements

Complete six (6) units from the following:

- SPA 305 - Conversational Spanish for the Professions
- SPA 315 - Introduction to Hispanic Literature
- SPA 335 - Spanish in the Professions
- SPA 400 - Special Topics
- SPA 450 - Research in Literature

Spanish Teaching

- SPA 315 - Introduction to Hispanic Literature

- SPA 330 - Hispanic Literature and Film **OR**
- SPA 339 - Modern Mexican Literature and Film

- SPA 411 - Spanish-English Comparative Structures
- SPA 470 - Spanish for Education

Subject Matter Preparation Program in Spanish

The Single Subject Matter Preparation (SSMP) Program in Spanish consists of approved Spanish courses selected to provide undergraduate students the academic background necessary to qualify them to teach Spanish courses in grades seven through twelve. To obtain a Single Subject Credential in Spanish the student must

1. Obtain an undergraduate degree.

2. Demonstrate subject competence in Spanish in one of two ways: Earn a passing score on a Spanish examination that has been adopted by the Commission on Teacher Credentialing or complete a commission approved SSMP program. The SSMP Program from CBU is an approved CTC program.
3. Complete a teaching credential program.

Students interested in the Subject Matter Preparation Program should contact their Faculty Advisor in the Spanish Department. Students seeking a teaching credential should contact the Teacher Education Credential Program within the School of Education. (Also see Preliminary Single Subject Credential for the Professional Methods Program for Single Subject Credential Students.)

American Sign Language Minor

Traditional Minor Program Requirements (18 units)

The American Sign Language (ASL) minor is designed to provide students with a quality undergraduate preparation that will enhance careers in Education, Speech-Language Pathology, Medical Practice, Law, Law Enforcement, Arts and Entertainment, Christian Ministry, Counseling, and other fields of public service. In addition to developing practical conversational skills in ASL, students will gain theoretical and experiential awareness of Deaf culture and community.

Prerequisites

- ASL 115 - American Sign Language I
- ASL 125 - American Sign Language II

Lower Division Requirements

- ASL 215 - Intermediate American Sign Language I
- ASL 225 - Intermediate American Sign Language II

Upper Division Requirements

- ASL 315 - Deaf Studies
- ASL 325 - American Sign Language Linguistics
- ASL 415 - American Deaf Culture

Upper Division Elective Requirement

Complete three (3) units from the following:

- ASL 425 - Introduction to Interpreting for the Deaf
- CST 307 - Deaf Ministry

Children's Literature Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirement

- ENG 201 - Introduction to Literature

Upper Division Requirements

- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature

Upper Division Elective Requirement

Complete three (3) additional units from the following:

- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities
- ENG 313 - American Multicultural Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 409 - Good Books
- ENG 463 - Language Structure and Acquisition
- PSY 305 - Developmental Psychology: Child
- THE 312 - Drama in the Classroom

Creative Writing Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirement

- ENG 273 - Introduction to Creative Writing

Upper Division Requirements

Complete one of the following sequences:

- ENG 384 - Writing Fiction
- ENG 484 - Advanced Fiction Writing
  OR
- ENG 385 - Writing Poetry
- ENG 485 - Advanced Poetry Writing

Upper Division Writing Elective Requirements

Complete six (6) units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing

Upper Division Elective Requirement

Complete three (3) additional units from the following:

- ENG 384 - Writing Fiction
- ENG 385 - Writing Poetry
- ENG 386 - Writing Creative Nonfiction
- ENG 411 - Special Topics in Creative Writing
- ENG 431 - Literary Journal Editing and Publishing
- ENG 484 - Advanced Fiction Writing
- ENG 485 - Advanced Poetry Writing
- FLM 301 - Basic Screenwriting
- JRN 312 - Magazine and Feature Writing
- THE 424 - Scriptwriting

English Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirement

- ENG 201 - Introduction to Literature

Lower Division Elective Requirement

Complete three (3) units from the following:

- ENG 213 - British Literature Pre-1750
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865
- ENG 243 - American Literature Post-1865
- ENG 253 - World Literature Pre-1650
- ENG 263 - World Literature Post-1650

Upper Division Requirements

Complete twelve (12) upper division units in English

Spanish for Healthcare Professions Minor

Traditional Minor Program Requirements (18 units)

The Spanish for Healthcare Professions minor provides concentrated preparation in the study of language and culture in the healthcare field. Given the ever-growing need for bilingual doctors, nurses, and other health care professionals due to the consistently growing population of Spanish speakers in the US, students graduating with this minor will be well equipped and at an advantage to many of their peers when applying for positions within the healthcare professions.

Prerequisites

Complete one of the following course sequences:

- SPA 110 - Spanish for Health Care Professionals I **AND**
- SPA 120 - Spanish for Health Care Professionals II
  OR
- SPA 115 - Elementary Spanish I **AND**
- SPA 125 - Elementary Spanish II
  OR
- SPA 130 - Spanish for Heritage Speakers I

Lower Division Requirements

*Replace with upper division units in Spanish if exempted by exam or assessment.

- SPA 213 - Intermediate Spanish I **AND**
- SPA 223 - Intermediate Spanish II
  OR
- SPA 230 - Spanish for Heritage Speakers II * **AND**
- Three (3) additional units in Spanish

Upper Division Requirements

- SPA 335 - Spanish in the Professions
- SPA 337 - Advanced Spanish for Healthcare Professions
- SPA 465 - Spanish-English Translation and Interpretation

Upper Division Elective Requirement

- Complete three (3) additional units in Spanish

Spanish Minor

Traditional Minor Program Requirements (18 units)

Prerequisites

- SPA 115 - Elementary Spanish I **AND**
- SPA 125 - Elementary Spanish II
  OR
- SPA 130 - Spanish for Heritage Speakers I

Lower Division Requirements

*Replace with upper division units in Spanish if exempted by exam or assessment.

- SPA 213 - Intermediate Spanish I **AND**
- SPA 223 - Intermediate Spanish II
  OR
- SPA 230 - Spanish for Heritage Speakers II * **AND**
- Three (3) additional units in Spanish

Upper Division Requirements

- SPA 315 - Introduction to Hispanic Literature
- SPA 325 - Spanish Grammar in Context and Composition
- Six (6) additional upper division units in Spanish

Teachers of English to Speakers of Other Languages (TESOL) Minor

Traditional Minor Program Requirements (18 units)

The TESOL minor includes concentrated coursework in TESOL designed for students from all disciplines who wish to supplement their academic interest or goals. The TESOL minor is especially valuable for students who seek work or ministry opportunities - at home or abroad - with speakers of languages other than English.

Upper Division Requirements

- ENG 432 - Sociolinguistics
- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 463 - Language Structure and Acquisition
- ENG 472 - Theory and Methods of TESOL

Writing and Digital Studies Minor

Traditional Minor Program Requirements (18 units)

The Writing and Digital Studies minor is designed to complement a broad range of majors and to prepare students for professional writing in a digital environment by developing and translating their written, analytical, and research skills into the workplace. It explores a variety of digital platforms for both analysis and expression.

Lower Division Requirements

- ENG 201 - Introduction to Literature **OR**
- ENG 273 - Introduction to Creative Writing

- HUM 213 - Humanities I **OR**
- HUM 223 - Humanities II

Upper Division Requirements

- ENG 302 - Professional Writing
- ENG 382 - Introduction to Digital Studies

Writing and Practical Application Elective Requirement

Complete three (3) units from the following:

- ENG 431 - Literary Journal Editing and Publishing

- ENG 454 - Writing in Context
- ENG 491 - Internship

Upper Division Breadth Elective Requirement

Complete three (3) units from the following:

- ART 351 - Museum Studies
- ART 385 - Film as Visual Art
- ART 387 - Contemporary Visual Arts and Culture
- ART 430 - Art and the Bible
- ENG 303 - Topics in World Literature
- ENG 323 - Classical Literature
- ENG 333 - Seventeenth Century British Literature
- ENG 343 - Eighteenth and Nineteenth Century British Literature
- ENG 353 - Introduction to Children's Literature
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 363 - Introduction to Young Adult Literature
- ENG 365 - Christian Classics
- ENG 399 - Independent Study
- ENG 400 - Special Topics in English
- ENG 431 - Literary Journal Editing and Publishing
- ENG 434 - Major Christian Authors
- ENG 440 - Modern American Literature
- ENG 443 - Contemporary American Literature
- ENG 454 - Writing in Context
- ENG 460 - Modern and Contemporary British Literature
- ENG 491 - Internship
- FLM 305 - Christianity and Film
- FLM 350 - Film and Literature
- HIS 440 - History Through Film
- HUM 325 - Culture and the Museum
- JRN 320 - Media Law, Ethics, and Copyright
- JRN 349 - Editing for Print and Online Media
- JRN 370 - Social Media Strategies
- POL 330 - Law and Literature

Advanced Proficiency in Written and Oral Spanish Certificate

Traditional Certificate Program Requirements (12 units)

The Advanced Proficiency in Written and Oral Spanish Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.

Certificate Requirements

*Replace with upper division units in Spanish if exempted by exam or assessment.

- SPA 213 - Intermediate Spanish I **AND**

- SPA 223 - Intermediate Spanish II
  OR
- SPA 230 - Spanish for Heritage Speakers II * **AND**
- Three (3) additional units in Spanish

- SPA 325 - Spanish Grammar in Context and Composition
- Three (3) additional upper division units in Spanish

Children's Literature Certificate

Traditional Certificate Program Requirements (12 units)

The Children's Literature Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. The certificate includes concentrated coursework in children's literature designed for students who wish to supplement their academic interest or goals.

Certificate Requirements

- ENG 353 - Introduction to Children's Literature
- ENG 363 - Introduction to Young Adult Literature

Certificate Elective Requirements

Complete six (6) units from the following:

* Special Topics courses must be approved by the Department of Modern Languages and Literature to meet certificate requirements.

- ENG 200 - Special Topics in English *
- ENG 354 - Children's Classics
- ENG 355 - Folklore and Fairy Tales
- ENG 400 - Special Topics in English *

Hispanic Literature and Film Certificate

Traditional Certificate Program Requirements (12 units)

The Hispanic Literature and Film Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.

Upper Division Requirements

- SPA 330 - Hispanic Literature and Film
- SPA 339 - Modern Mexican Literature and Film

Additional Upper Division Requirements

Complete six (6) units from the following:

- SPA 305 - Conversational Spanish for the Professions

- SPA 315 - Introduction to Hispanic Literature
- SPA 335 - Spanish in the Professions
- SPA 400 - Special Topics
- SPA 450 - Research in Literature

Teachers of English to Speakers of Other Languages (TESOL) Certificate

Traditional Certificate Program Requirements

The TESOL Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. The certificate includes concentrated coursework in TESOL designed for students with a major outside the English program who wish to supplement their academic interest or goals.

Certificate Requirements (15 units)

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment
- ENG 463 - Language Structure and Acquisition
- ENG 472 - Theory and Methods of TESOL

Division of Natural and Mathematical Sciences - Department of Biological Sciences

Division of Natural and Mathematical Sciences

Dr. Thomas Ferko
Associate Dean

Ms. Debbie Spala
Administrative Secretary
Phone 951.343.4380
FAX 951.343.4584
nms@calbaptist.edu

Faculty Information

The Division of Natural and Mathematical Sciences consists of the following three departments: Biological Sciences, Chemical Sciences, and Mathematical Sciences. We are committed to preparing students for careers in mathematics and science and science-related fields. Our students are successfully transitioning into professional or graduate schools, into the classroom as teachers, or directly into the workforce in a variety of careers. Students have the opportunity to work with our faculty on research, present their research at California Baptist University and outside conferences, as well as work in our labs. Our diverse, highly qualified and caring faculty is interested in helping to develop the whole person so that our students will leave California Baptist University as Christian scholars who can make a positive impact in our world.

Department of Biological Sciences

Dr. Bruce Prins
Chair

Ms. Allie Floyd
Department Secretary
Phone 951.552.8988
FAX 951.343.4584
biosci@calbaptist.edu

A bachelor's degree in the Department of Biological Sciences from California Baptist University is a great start toward many exciting career opportunities, especially those related to healthcare, solving environmental challenges, working with animals, teaching, research, sustainable development, and more. Students will be prepared to join the growing number of people and organizations around the globe who are focused on helping others meet their basic human needs, including healthcare and developing sustainable communities.

The Biomedical Sciences major is tailored for students seeking careers in various biomedical professions, including medicine, dentistry, pharmacy, physician assistant, physical therapy, podiatry, optometry, veterinary and others.

The Biology Major is for students who want to go to medical or other professional schools, who want teach, or who just have a general interest in biology.

The Environmental Science major is focused on learning about and solving environmental challenges.

The Sustainability major provides a cross disciplinary approach, which includes education in urban agriculture, social issues, sustainable development, environmental studies, and ecological impact.

We are very proud of the success our graduates are having. Our faculty are personally invested in the students, and opportunities for students to be involved in research and student organizations are plentiful. These interactions will help in choosing a career goal that fits their strengths, helps realize their goals, and allows them to live their purpose.

Biology, BS

Traditional Major Program Requirements (64-68 units)

This Biology program provides the core curricular needs for the life sciences, and prepares its majors for the pursuit of graduate studies, professional studies, teaching at the secondary level, or research in the biological sciences. Students interested in teaching at the secondary level should see the Education section for the Professional Methods Program for Single Subject Credential Students.

Lower Division Requirements

- BIO 101 - Orientation to the Discipline
- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- MAT 145 - Mathematical Methods in the Natural Sciences **OR**
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Upper Division Requirements

- BIO 313 - Genetics
- BIO 330 - Cell and Molecular Biology with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab

Practicum Requirement

Complete three (3) units from the following:

- BIO 380 - Biology Seminar
- BIO 490 - Senior Research in Biology
- BIO 491 - Internship in Biology
- BIO 499 - Biology Capstone

Concentration Courses (16-20 units)

Students must complete all requirements in one of the following concentrations: Environmental Science; General Biology; Secondary Biology Education

Environmental Science (16 units)

- BIO 114 - General Botany with Lab
- BIO 302 - Ecology with Lab
- ENV 360 - Environmental Chemistry with Lab
- SCI 412 - Topics Marine Science

General Biology (16 units)

- BIO 114 - General Botany with Lab
- Complete twelve (12) additional upper division units in biology and SCI 412

Secondary Biology Education (20 units)

- BIO 114 - General Botany with Lab
- BIO 302 - Ecology with Lab
- BIO 344 - Vertebrate Physiology with Lab
- ENV 451 - Advanced Geoscience with Lab
- PHY 301 - Astronomy II
- PHY 301L - Astronomy II Lab

Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

Biomedical Sciences, BS

Traditional Major Program Requirements (74 units)

This major prepares students for careers in biomedical sciences, including as physicians, dentists, pharmacists, podiatrists, graduate nursing, physician assistants, physical therapists. optometrists, and veterinarians. The curriculum provides necessary application course requirements and preparation for success in graduate programs. Emphasis is placed on human biology, pathobiology, and pharmacology.

Lower Division Requirements

- BIO 101 - Orientation to the Discipline
- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- MAT 145 - Mathematical Methods in the Natural Sciences **OR**
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab
- STA 144 - Introduction to Statistics

Upper Division Requirements

- BIO 305 - Microbiology with Lab
- BIO 330 - Cell and Molecular Biology with Lab

- BIO 353 - Advanced Human Anatomy and Physiology I with Lab
- BIO 363 - Advanced Human Anatomy and Physiology II with Lab
- BIO 440 - Pharmacology with Discussion
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab

Upper Division Research Requirement

Complete at least two (2) units of either:

- BIO 490 - Senior Research in Biology *OR*
- BIO 491 - Internship in Biology *OR*
- BIO 499 - Biology Capstone

Upper Division Electives

Complete eight (8) units from the following:

- BIO 313 - Genetics
- BIO 324 - Developmental Biology with Lab
- BIO 412 - Topics in Biology
- BIO 425 - Cancer Biology
- BIO 489 - Immunology and Molecular Pathogenesis with Lab

Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

Environmental Science, BS

Traditional Major Program Requirements (63 units)

The Environmental Science degree program is designed for students who wish to receive a comprehensive environmental science education for the purpose of research into and management of Earth's natural resources, and for promotion of environmental protection of these resources for public health and welfare. The major prepares students for careers in private, state and federal environmental roles. The major is designed for students who have a desire to solve environmental challenges and be involved in their solutions.

Lower Division Requirements

- BIO 114 - General Botany with Lab
- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- ENV 110 - Introduction to Environmental Science with Lab

- MAT 145 - Mathematical Methods in the Natural Sciences
- STA 144 - Introduction to Statistics

Upper Division Requirements

- BIO 302 - Ecology with Lab
- ENV 360 - Environmental Chemistry with Lab
- ENV 380 - Environmental Science Seminar
- ENV 390 - Stewardship of the Environment
- ENV 450 - Environmental Organic Chemistry with Lab
- ENV 470 - Advanced Environmental Science with Lab

Upper Division Elective Requirements

Complete twelve (12) additional upper division units from:

- ENV (any upper division ENV courses)
- BIO 305 - Microbiology with Lab
- BIO 313 - Genetics
- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 470 - Instrumental Analysis
- SCI 412 - Topics Marine Science

Sustainability, BS

Traditional Major Program Requirements (69 units)

Sustainability is the science of developing, planning, and providing for the current global population's needs while not exceeding our future generations' resources. To achieve this goal, our Sustainability program provides a cross disciplinary approach, which includes education in urban agriculture, social issues, sustainable development, environmental studies, and ecological impacts. Students graduating with this degree will have the skills to develop innovative solutions to global challenges while helping to protect the natural environment and build resilient communities.

Lower Division Requirements

- ANT 225 - Cultural Anthropology
- BIO 114 - General Botany with Lab
- BIO 143 - Principles of Biology
- BIO 143L - Principles of Biology Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- BUS 212 - Economics, Life, and Society
- CHE 102 - Fundamentals of Chemistry
- CHE 112 - Organic and Biochemistry for Health Sciences
- CHE 112L - Organic and Biochemistry for Health Sciences Lab
- EGR 256 - Principles of Environmental Engineering and Science
- ENV 110 - Introduction to Environmental Science with Lab
- ENV 151 - Introduction to the Geosciences
- ENV 151L - Introduction to the Geosciences Lab

- STA 144 - Introduction to Statistics

Upper Division Requirements

- BIO 302 - Ecology with Lab
- CIS 465 - Essentials of Geographic Information Systems
- EGR 456 - Sustainable Civil Engineering
- ENV 310 - Sustainable Agriculture and Population Dynamics
- ENV 350L - Urban Agriculture Lab
- ENV 370 - Soil and Water
- ENV 410 - Social Issues and Sustainable Development
- ENV 430 - Sustainability and Conservation with Lab
- POL 415 - World Geography
- STA 305 - Sampling and Survey Methodology

Biology Minor

Traditional Minor Program Requirements (27 units)

Lower Division Requirements

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab

Upper Division Requirements

- BIO 305 - Microbiology with Lab
- Four (4) additional upper division units in Biology with a Lab or Discussion
- Three (3) additional upper division units in Biology

Environmental Science Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- ENV 110 - Introduction to Environmental Science with Lab

Upper Division Elective Requirements

Complete twelve (12) upper division units from:

- ENV **OR**
- BIO 302 - Ecology with Lab *OR*
- SCI 412 - Topics Marine Science

Sustainability Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirement

- ENV 110 - Introduction to Environmental Science with Lab

Upper Division Requirements

- ENV 310 - Sustainable Agriculture and Population Dynamics
- ENV 350L - Urban Agriculture Lab
- ENV 370 - Soil and Water
- ENV 410 - Social Issues and Sustainable Development
- ENV 430 - Sustainability and Conservation with Lab

Division of Natural and Mathematical Sciences - Department of Chemical Sciences

Division of Natural and Mathematical Sciences

Dr. Thomas Ferko
Associate Dean

Ms. Debbie Spala
Administrative Secretary
Phone 951.343.4380
FAX 951.343.4584
nms@calbaptist.edu

Faculty Information

The Division of Natural and Mathematical Sciences consists of the following three departments: Biological Sciences, Chemical Sciences, and Mathematical Sciences. We are committed to preparing students for careers in mathematics and science and science-related fields. Our students are successfully transitioning into professional or graduate schools, into the classroom as teachers, or directly into the workforce in a variety of careers. Students have the opportunity to work with our faculty on research, present their research at California Baptist University and outside conferences, as well as work in our labs. Our diverse, highly qualified and caring faculty is interested in helping to develop the whole person so that our students will leave California Baptist University as Christian scholars who can make a positive impact in our world.

Department of Chemical Sciences

Dr. Patrick Schacht
Chair

Ms. Debbie Spala
Administrative Secretary
Phone 951.343.4380
FAX 951.343.4584
nms@calbaptist.edu

The Department of Chemical Sciences offers majors and minors that will help prepare students for a variety of careers. Students can work in fields at the forefront of science - helping to develop the technologies of tomorrow, or in a variety of careers which require a background in chemistry.

A major in chemistry can lead to work in industries that produce pharmaceuticals, personal care products, plastics, household chemicals, foods and beverages, and thousands of other materials relied upon for everyday life. Chemists also conduct research to better understand nature and solve significant problems, such as developing alternative fuels and understanding climate change. Many of our graduates continue on to graduate school to further prepare them for research-related careers while other students pursue careers as secondary school teachers, scientists in private labs, or employment in governmental agencies.

The biochemistry and molecular biology major is designed with courses that will either prepare students for, or directly cover, topics that are at the convergence of chemistry and biology. This major is rigorous and comprehensive, preparing students for graduate and professional programs in the biomedical sciences and the same careers as biology and chemistry majors.

The forensic chemistry major prepares students to be competitive for entry level employment in forensic science-related positions while also providing a strong background in chemistry that can lead to other careers. By choosing either a concentration in Criminal Justice Systems or Criminalistics, students will gain advanced experience in one of these areas, depending on the career direction that the student wants to pursue.

Students will learn under professors who are dedicated to their students. Most major classes are taught by full-time faculty members. We have state-of-the-art equipment and facilities that are dedicated solely for use by our students in both classes and research.

Biochemistry and Molecular Biology, BS

Traditional Major Program Requirements (75 units)

Biochemistry and Molecular Biology majors study the area of science where biology and chemistry intersect. It is an ideal major for students with strong interest in both biology and chemistry as it prepares students for graduate studies and professional studies in medical sciences, in addition to industry and government careers that require in-depth knowledge of either chemistry or biology.

Lower Division Requirements

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 101 - Orientation to the Discipline
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- CHE 230 - Introduction to Molecular Modeling
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Upper Division Requirements

- BIO 330 - Cell and Molecular Biology with Lab
- BIO 430 - Laboratory Techniques in Molecular Biology
- BIO 435 - Proteomics, Genomics, and Bioinformatics with Lab
- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 415 - Physical Chemistry I
- CHE 443 - Biochemistry I with Lab
- CHE 444 - Biochemistry II with Lab

Upper Division Elective Requirement

Complete four (4) units from the following:

- BIO 313 - Genetics
- BIO 440 - Pharmacology with Discussion
- BIO 489 - Immunology and Molecular Pathogenesis with Lab

Upper Division Research Requirement

Complete a four (4) unit sequence from the following:

- BIO 380 - Biology Seminar
- BIO 490 - Senior Research in Biology (3 units)
  OR
- CHE 480 - Chemistry Research Seminar
- CHE 490 - Senior Research in Chemistry (3 units)

Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

Chemistry, BS

Traditional Major Program Requirements (65-70 units)

The Chemistry major prepares students for employment in industry, government, and academia in positions that require an in-depth knowledge of chemistry. The major also prepares students to be chemistry teachers and for graduate study in scientific disciplines related to chemistry. Students choose one of four concentrations, depending on interests and career goals. Students interested in teaching at the secondary level should see the Education section for the Professional Methods Program for Single Subject Credential Students.

- Preliminary Multiple Subject Credential
- Preliminary Single Subject Credential

Lower Division Requirements

- CHE 101 - Orientation to the Discipline
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- CHE 230 - Introduction to Molecular Modeling
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Upper Division Requirements

- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 415 - Physical Chemistry I
- CHE 416 - Physical Chemistry II with Lab

- CHE 470 - Instrumental Analysis
- CHE 480 - Chemistry Research Seminar

Concentration Courses (15-20 units)

Students must complete all requirements in one of the following concentrations: Advanced Studies in Chemistry; Environmental Science; Secondary Chemistry Education; Pre-Medical Chemistry

Advanced Studies in Chemistry (15 units)

Upper Division Requirement

- CHE 490 - Senior Research in Chemistry (3 units)

Upper Division Elective Requirements

Complete twelve (12) units from the following:

- CHE 341 - Advanced Inorganic Chemistry with Lab
- CHE 400 - Special Topics in Chemistry
- CHE 443 - Biochemistry I with Lab
- CHE 444 - Biochemistry II with Lab

Environmental Science (20 units)

- BIO 148 - General Biology II with Lab
- ENV 110 - Introduction to Environmental Science with Lab
- Twelve (12) additional units of upper division Environmental Science coursework

Secondary Chemistry Education (20 units)

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- CHE 341 - Advanced Inorganic Chemistry with Lab
- PHY 301 - Astronomy II
- PHY 301L - Astronomy II Lab
- ENV 451 - Advanced Geoscience with Lab

Pre-Medical Chemistry (16 units)

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- Eight (8) additional units of upper-division Biology or Chemistry coursework

Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

Forensic Chemistry, BS

Traditional Major Program Requirements (70-74 units)

The Forensic Chemistry major prepares students to be competitive for entry level employment in forensic science-related positions while also providing a strong background in chemistry that can lead to other careers. By choosing either a concentration in Criminal Justice Systems or Criminalistics students will gain advanced experience in one of these areas, depending on the career direction that the student wants to pursue.

Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 101 - Orientation to the Discipline
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- CJS 113 - Introduction to Criminal Justice
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab
- SCI 205 - Introduction to Forensic Science with Lab
- STA 144 - Introduction to Statistics

Upper Division Requirements

- CHE 321 - Quantitative Chemical Analysis with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 470 - Instrumental Analysis
- CHE 475 - Forensic Chemistry with Lab
- CHE 485 - Forensic Chemistry Major Capstone

Concentration Courses (12-16 units)

Students must complete all requirements in one of the following concentrations: Criminal Justice Systems; Criminalistics

Criminal Justice Systems (12 units)

Complete twelve (12) units from the following:

- CJS 301 - Fundamentals of Criminal Law
- CJS 321 - Courts and Criminal Procedures
- CJS 331 - Police Systems and Practices
- CJS 441 - Fundamentals of Criminal Investigation and Report Writing
- CJS 485 - Methods of Research for Criminal Justice

Criminalistics (16 units)

- BIO 148 - General Biology II with Lab
- BIO 313 - Genetics
- BIO 330 - Cell and Molecular Biology with Lab
- CHE 443 - Biochemistry I with Lab

Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

Chemistry Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab

Upper Division Requirements

- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab

Upper Division Elective Requirement

- Complete eight (8) additional upper division units in Chemistry

Forensic Chemistry Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- SCI 205 - Introduction to Forensic Science with Lab

Upper Division Requirements

- CHE 321 - Quantitative Chemical Analysis with Lab

- CHE 470 - Instrumental Analysis
- CHE 475 - Forensic Chemistry with Lab

Division of Natural and Mathematical Sciences - Department of Mathematical Sciences

Division of Natural and Mathematical Sciences

Dr. Thomas Ferko
Associate Dean

Ms. Debbie Spala
Administrative Secretary
Phone 951.343.4380
FAX 951.343.4584
nms@calbaptist.edu

Faculty Information

The Division of Natural and Mathematical Sciences consists of the following three departments: Biological Sciences, Chemical Sciences, and Mathematical Sciences. We are committed to preparing students for careers in mathematics and science and science-related fields. Our students are successfully transitioning into professional or graduate schools, into the classroom as teachers, or directly into the workforce in a variety of careers. Students have the opportunity to work with our faculty on research, present their research at California Baptist University and outside conferences, as well as work in our labs. Our diverse, highly qualified and caring faculty is interested in helping to develop the whole person so that our students will leave California Baptist University as Christian scholars who can make a positive impact in our world.

Department of Mathematical Sciences

Dr. Ricardo Cordero-Soto
Chair

Ms. Kimberlee Bartholomew
Department Secretary
Phone 951.552.8662
FAX 951.343.4584
nms@calbaptist.edu

With programs in Actuarial Science, Foundational Mathematics, Mathematics, Sports Analytics and Statistics and Data Analytics, the Department of Mathematical Sciences prepares students to pursue some of the top careers of today. Our programs provide a strong academic aptitude that is founded on faith. Collectively, our programs do this in at least two different ways:

1. By glorifying God through the study of the beauty of the mathematical sciences.

2. And by cultivating Christ-like compassion that serves and loves others via problem solving that is relevant to an ever-changing global landscape.

The Actuarial Science degree program is designed for students who wish to pursue a career as an actuary or in other areas of industry dealing with risk management. With margins thinner, actuarial accuracy is more necessary than ever to the global economy. This program is designed to prepare students to take the first two actuarial exams. Also, the Society of Actuaries (SOA) has approved CBU for Validation by Educational Experience (VEE) in areas of Mathematical Statistics, Economics, and Accounting and Finance.

We offer a bachelor of arts in Statistics and Data Analytics as well as a bachelor of science in Sports Analytics. These majors prepare students to work in one of the hottest sectors with the latest technology collecting, displaying, analyzing and mining data. Students will work side-by-side with full-time professors with real world experience. Using state-of-the-art computers and software, students will analyze local and global life-changing issues and apply their results to save lives and help people.

Our Mathematics major prepares students for careers in teaching at the secondary level, research, industry, business and graduate study. With a major in math, students will learn skills that will enable them to serve God and our society. Our Mathematics students want to develop their mathematical abilities with depth and excellence, and we are here to help them do just that. We are concerned with more than just providing the required coursework to be a skilled mathematician; we also care about our students and want to help them prepare for the career that is right for them.

Kappa Mu Epsilon is a specialized honor society in mathematics founded to promote the interest of mathematics among undergraduate students and recognition of outstanding achievement in the study of mathematics at the undergraduate level. Membership is open to students who have completed at least three college mathematics courses (including at least one semester of calculus) with an overall grade point average of 3.00 or better. Members must be at least a second-semester sophomore and rank in the top 35% of their class. For more information, contact Dr. Jim Buchholz, Faculty Advisor.

Actuarial Science, BS

Traditional Major Program Requirements (66 units)

The Actuarial Science degree program is designed for students who wish to pursue a career as an actuary or in other areas of industry dealing with risk management. The program is designed to prepare students to take the first two actuarial exams (Probability and Financial Mathematics) and has been approved by the Society of Actuaries (SOA) for Validation by Educational Experience (VEE) in all three areas of Applied Statistical Methods, Economics, and Corporate Finance.

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- CIS 268 - Computer Programming Languages
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- STA 101 - Statistical Foundations
- STA 144 - Introduction to Statistics
- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I
- STA 211 - Statistical Computing II

Upper Division Requirements

- BUS 303 - Business Finance
- MAT 303 - Linear Algebra with Applications to Differential Equations
- MAT 343 - Multivariable Calculus
- MAT 353 - Probability and Statistics
- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II
- STA 320 - Financial Mathematics I
- STA 321 - Financial Mathematics II
- STA 470 - Seminar in Financial Mathematics
- STA 480 - Seminar in Probability and Statistics

Foundational Mathematics, BS

Traditional Major Program Requirements (58-59 units)

The Foundational Mathematics major is designed for students who plan to teach mathematics in a single subject classroom, up through but not including calculus or Advanced Placement mathematics courses at the secondary level.

Lower Division Requirements

- MAT 101 - Orientation to the Discipline
- MAT 125 - Mathematical Concepts and Applications I
- MAT 127 - Mathematical Concepts and Applications II
- MAT 135 - Pre-Calculus
- MAT 245 - Analytical Geometry and Calculus I
- MAT 250 - Modeling and Applications of Calculus
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- EDU 341 - The Exceptional Child
- EDU 409 - Educational Psychology
- EDU 411 - Theories and Methods of Teaching Diverse Students
- ETC 407 - Technology and Learning
- MAT 313 - Mathematical Proof and Structures
- MAT 353 - Probability and Statistics
- MAT 363 - History of Mathematics and Theory of Numbers
- MAT 403 - Linear Algebra
- MAT 463 - Fundamental Concepts of Geometry
- MAT 499 - Capstone (4 units)

Elective Requirements

Complete a set of courses from the following:

- MAT 343 - Multivariable Calculus **AND**
- MAT 443 - Introduction to Real Analysis
  OR
- PHY 214 - Physics I **AND**
- PHY 214L - Physics I Lab **AND**
- PHY 224 - Physics II **AND**
- PHY 224L - Physics II Lab

Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

Subject Matter Preparation Program in Mathematics

The Single Subject Matter Preparation (SSMP) Program in Mathematics consists of approved mathematics courses selected to provide undergraduate students the academic background necessary to qualify them to teach mathematics in grades seven through twelve. To obtain a Single Subject Credential in Mathematics the student must:

1. Obtain an undergraduate degree.
2. Demonstrate subject competence in mathematics in one of two ways: Earn a passing score on a mathematics examination that has been adopted by the Commission on Teacher Credentialing (CTC) or complete a commission approved SSMP program. The SSMP Program from CBU is an approved CTC program.
3. Complete a teaching credential program.

Students interested in the Subject Matter Preparation Program should contact their Faculty Advisor in the Mathematics Department. Students seeking a teaching credential should contact the Teacher Education Credential Program within the School of Education. (Also see the Single Subject Credential section for the Professional Methods Program for Single Subject Credential Students.)

Mathematics, BS

(also see Foundational Mathematics, BS)

Traditional Major Program Requirements (53-58 units)

The Mathematics major is designed for students who wish to become competitive mathematicians that seek to discover uncharted mathematical territory through research, find a fulfilling career in a job-market in need of mathematical and analytical skills, teach mathematics and impact the lives of students at the secondary level, and solve real-world problems.

Lower Division Requirements

- CIS 268 - Computer Programming Languages
- MAT 245 - Analytical Geometry and Calculus I
- MAT 250 - Modeling and Applications of Calculus
- MAT 255 - Analytical Geometry and Calculus II
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Upper Division Requirements

- MAT 313 - Mathematical Proof and Structures
- MAT 323 - Abstract Algebra I
- MAT 343 - Multivariable Calculus
- MAT 403 - Linear Algebra
- MAT 413 - Differential Equations
- MAT 443 - Introduction to Real Analysis
- MAT 480 - Senior Seminar

Concentration Courses (12-17 units)

Students must complete all requirements in one of the following concentrations: Advanced Studies in Mathematics; Applied Mathematics; General Studies in Mathematics; Secondary Mathematics Education

Advanced Studies in Mathematics (12 units)

- MAT 333 - Complex Variables
- MAT 423 - Introduction to Topology
- MAT 453 - Numerical Analysis
- MAT 483 - Abstract Algebra II

Applied Mathematics (12-14 units)

- MAT 353 - Probability and Statistics
- MAT 453 - Numerical Analysis

Applied Mathematics Elective Requirements

Complete at least six (6) additional units from the following:

- MAT 333 - Complex Variables
- MAT 400 - Special Topics in Mathematics
- MAT 425 - Applications of Topology
- MAT 490 - Senior Research in Mathematics (3 units)*
- PHY 310 - Waves and Optics with Lab
- PHY 320 - Modern Physics
- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II
- STA 320 - Financial Mathematics I
- STA 321 - Financial Mathematics II

  * If MAT 490 is selected, it must be taken for three (3) units, and may only be counted toward the concentration one time.

General Studies in Mathematics (12 units)

Complete twelve (12) additional upper division units in Mathematics.

* A maximum of six (6) units may be completed through enrollment in MAT 400

Secondary Mathematics Education (17 units) *

- MAT 101 - Orientation to the Discipline
- MAT 333 - Complex Variables
- MAT 353 - Probability and Statistics
- MAT 363 - History of Mathematics and Theory of Numbers
- MAT 463 - Fundamental Concepts of Geometry
- MAT 499 - Capstone

Recommended Courses

- PHY 214D - Physics I Discussion
- PHY 224D - Physics II Discussion

Subject Matter Preparation Program in Mathematics

The Single Subject Matter Preparation (SSMP) Program in Mathematics consists of approved mathematics courses selected to provide undergraduate students the academic background necessary to qualify them to teach mathematics in grades seven through twelve. To obtain a Single Subject Credential in Mathematics the student must:

1. Obtain an undergraduate degree.
2. Demonstrate subject competence in mathematics in one of two ways: Earn a passing score on a mathematics examination that has been adopted by the Commission on Teacher Credentialing (CTC) or complete a commission approved SSMP program. The SSMP Program from CBU is an approved CTC program.
3. Complete a teaching credential program.

Students interested in the Subject Matter Preparation Program should contact their Faculty Advisor in the Mathematics Department. Students seeking a teaching credential should contact the Teacher Education Credential Program within the School of Education. (Also see the Education section for the Professional Methods Program for Single Subject Credential Students.)

Sports Analytics, BS

Traditional Major Program Requirements (41-51 units)

Lower Division Requirements

- CIS 268 - Computer Programming Languages **OR**
- EGR 121 - Introduction to Computer Programming in C++

- STA 101 - Statistical Foundations
- STA 144 - Introduction to Statistics
- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I

Upper Division Requirements

- STA 303 - Research and Experimental Design
- STA 360 - Data Visualization
- STA 362 - Advanced Statistical Computing
- STA 364 - Applied Statistical Methodology
- STA 460 - Sports Analytics Seminar
- STA 491 - Sports Analytics Internship (2 units)
- STA 499 - Capstone (1 unit)

Concentration Courses (12-22 units)

Students must complete all requirements in one of the following concentrations: Quantitative Sport Business; Rehabilitative Sports Analytics; Sports Performance Analytics

Quantitative Sport Business (22 units)

- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 463 - Business and Organizational Management

- KIN 305 - Applied Sport Management
- MAT 245 - Analytical Geometry and Calculus I
- MAT 353 - Probability and Statistics
- STA 320 - Financial Mathematics I

Rehabilitative Sports Analytics (19 units)

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 264 - Movement Anatomy
- KIN 353 - Care and Prevention of Athletic Injuries

- KIN 383 - Exercise Physiology **OR**
- KIN 490 - Principles of Conditioning Athletes

- KIN 454 - Behavioral Aspects of Sport
- STA 462 - Measurement and Evaluation

Sports Performance Analytics (12 units)

- KIN 305 - Applied Sport Management
- KIN 315 - Sport Governance
- KIN 454 - Behavioral Aspects of Sport

- STA 305 - Sampling and Survey Methodology **OR**
- STA 462 - Measurement and Evaluation

Statistics and Data Analytics, BA

Traditional Major Program Requirements (51-53 units)

An Interdisciplinary major providing math, statistics, and discipline-oriented skills aimed at professional practitioners as entry-level data analysts, and data mining applications.

Lower Division Requirements

- MAT 245 - Analytical Geometry and Calculus I
- STA 101 - Statistical Foundations
- STA 144 - Introduction to Statistics
- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I
- STA 211 - Statistical Computing II

Upper Division Requirements

- STA 303 - Research and Experimental Design
- STA 305 - Sampling and Survey Methodology
- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II

- STA 490 - Research in Statistics (1 unit)
- STA 499 - Capstone (3 units)

Concentration Courses (18-20 units)

Students must complete all of the requirements in one of the following concentrations: Mathematical Data Analytics; Quantitative Business Methods

Mathematical Data Analytics (20 units)

- MAT 255 - Analytical Geometry and Calculus II
- MAT 303 - Linear Algebra with Applications to Differential Equations
- MAT 343 - Multivariable Calculus
- STA 360 - Data Visualization
- STA 362 - Advanced Statistical Computing
- STA 364 - Applied Statistical Methodology

Quantitative Business Methods (18 units)

- BUS 380 - Business Analytics Visualization and Strategy
- BUS 381 - Spatial Analytics in Business
- BUS 480 - Business Models and Analytics
- BUS 481 - Design Thinking in Business Analysis
- STA 320 - Financial Mathematics I
- STA 321 - Financial Mathematics II

Actuarial Science Minor

Traditional Minor Program Requirements (27 units)

Lower Division Requirements

- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- STA 144 - Introduction to Statistics
- STA 210 - Statistical Computing I

Upper Division Requirements

- MAT 343 - Multivariable Calculus
- MAT 353 - Probability and Statistics
- STA 310 - Mathematical Statistics I
- STA 480 - Seminar in Probability and Statistics

Applied Statistics Minor

Traditional Minor Program Requirements (25 units)

Lower Division Requirements

- MAT 245 - Analytical Geometry and Calculus I
- STA 144 - Introduction to Statistics
- STA 205 - Applied Linear Regression
- STA 210 - Statistical Computing I

Upper Division Requirements

- STA 310 - Mathematical Statistics I
- STA 311 - Mathematical Statistics II

Upper Division Elective Requirements

Complete six (6) units from the following:

- STA 303 - Research and Experimental Design
- STA 305 - Sampling and Survey Methodology
- STA 360 - Data Visualization
- STA 362 - Advanced Statistical Computing
- STA 364 - Applied Statistical Methodology

Mathematics Minor

Traditional Minor Program Requirements (26 units)

Lower Division Requirements

- MAT 245 - Analytical Geometry and Calculus I
- MAT 250 - Modeling and Applications of Calculus
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- MAT 313 - Mathematical Proof and Structures
- MAT 343 - Multivariable Calculus
- Nine (9) additional upper division units in Mathematics

Physics Minor

Traditional Minor Program Requirements (20 units)

Lower Division Requirements

- PHY 201 - Physics for Engineers I with Lab **AND**
- PHY 203 - Physics for Engineers II with Lab
  OR
- PHY 214 - Physics I **AND**

- PHY 214L - Physics I Lab **AND**
- PHY 224 - Physics II **AND**
- PHY 224L - Physics II Lab

Upper Division Requirements

- PHY 310 - Waves and Optics with Lab
- PHY 320 - Modern Physics

Upper Division Elective Requirement

- Complete four (4) additional upper division units in Physics

Actuarial Science Certificate

Traditional Certificate Program Requirements

The Actuarial Science certificate is issued by the Office of the University Registrar upon student request and completion of the below courses. The certificate includes courses that have obtained Validation by Educational Experience (VEE) approval by the Society of Actuaries. https://www.soa.org/education/exam-req/edu-vee/

General Prerequisite Requirements

- ACC 250 - Principles of Accounting I
- CIS 268 - Computer Programming Languages *OR*
- CIS 270 - Business IT Application
- MAT 245 - Analytical Geometry and Calculus I
- MAT 353 - Probability and Statistics

Certificate Requirements (15 units)

- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 303 - Business Finance
- STA 310 - Mathematical Statistics I

College of Behavioral and Social Sciences

Dr. Jacqueline Gustafson
Dean

Dr. Doug Wallace
Associate Dean, Undergraduate Programs

Dr. Mischa Routon
Associate Dean, Graduate Programs

Ms. Stefani Plummer
Administrative Assistant
Phone 951.343.4487
FAX 951.343.4569

Faculty Information

The College of Behavioral and Social Sciences provides general education courses and degrees in the subject areas of Anthropology, Behavioral Science, Christian Behavioral Science, Psychology and Sociology. Bachelor of Arts degrees are available in five majors: Anthropology, Behavioral Sciences, Christian Behavioral Science, Psychology, Sociology, and Social Work. Students should consult with department faculty for help in selecting the best major for their graduate or career goals. All majors prepare students for entry-level positions in the behavioral sciences and for admission to graduate programs in Anthropology, Psychology, Sociology, or Social Work.

The faculty of the College of Behavioral and Social Sciences believes that academic training best serves the student when it is generalized across the various disciplines of the University. Students are therefore encouraged to broaden their educational experience by examining interdisciplinary aspects of their major and intentionally integrating their world view and religious perspective. Understanding human behavior from the unique perspective of integrating the relationship of material, cognitive, and spiritual aspects of reality are a significant part of the instruction and curriculum of the division.

Behavioral and social science graduates can find entry-level employment in business, education and government positions. Most degrees prepare the student for graduate work and professional life in the behavioral and social science fields.

Anthropology, BA

Traditional Major Program Requirements (50-53 units)

The Anthropology major is a traditional approach to anthropology which includes an overview of the four-field perspective which includes cultural anthropology, linguistics, physical anthropology, and archeology. The major provides the student with a general understanding of the discipline of anthropology and focuses on the concept of culture as an overriding concept in understanding human nature and variability.

Lower Division Requirement

- ANT 225 - Cultural Anthropology

Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I

- BEH 385 - Statistics and Research Methodology II

Upper Division Requirements

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology
- ANT 350 - Language and Culture
- ANT 430 - Culture and Personality
- ANT 460 - Religion and Culture
- BEH 480 - Capstone **OR**
- ANT 440 - Internship in Anthropology

Concentration Courses (12-15 units)

Students must complete all requirements in one of the following concentrations: Cultural Anthropology; Psychological Anthropology

Cultural Anthropology (12 units)

- ANT 360 - Globalization and Culture
- ANT 400 - Special Topics in Anthropology
- ANT 410 - Economic and Political Anthropology
- ANT 450 - Family and Gender Studies

Psychological Anthropology (15 units)

- PSY 213 - General Psychology
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 346 - Abnormal Psychology
- PSY 473 - Psychophysiology

Optional Additional Concentrations* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

*Each optional concentration requires the completion of a minimum twelve (12) distinct units beyond the major.

Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations

- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

Medical Anthropology

- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- ANT 430 - Culture and Personality
- PSY 213 - General Psychology
- PSY 473 - Psychophysiology **OR**
- PSY 305 - Developmental Psychology: Child

Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

Behavioral Science, BA

Traditional Major Program Requirements (56-68 units)

The Behavioral Science major is a broad program drawn from the modern behavioral sciences of anthropology, psychology, and sociology and includes the full methodological skills common to those behavioral sciences. The program also includes a Christian perspective of theology as a behavioral science. The major prepares graduates for employment in social service careers, and for graduate study in Psychology, Sociology, Social Work, and Anthropology. Students are encouraged to pursue a complimentary minor.

Lower Division Requirements

- BEH 100 - Survey of the Behavioral Sciences **OR**

- SOC 213 - Introduction to Sociology **OR**
- ANT 225 - Cultural Anthropology
- PSY 213 - General Psychology

Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

Upper Division Requirements

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology **OR**
- SOC 381 - Social Theory

- ANT 360 - Globalization and Culture
- ANT 430 - Culture and Personality
- CBS 350 - Lifespan Development and Discipleship
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 346 - Abnormal Psychology
- SOC 335 - Social Problems
- SOC 345 - Race and Ethnicity
- BEH 480 - Capstone *OR*
- ANT 440 - Internship in Anthropology *OR*
- PSY 440 - Internship in Human Services *OR*
- SOC 440 - Internship in Sociology

Optional Concentrations* (12 units)

Students can earn an optional concentration in the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

*Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major.

Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations

- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

Medical Anthropology

- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- PSY 213 - General Psychology
- PSY 338 - Sensation and Perception
- PSY 473 - Psychophysiology

Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

Christian Behavioral Science, BA

Traditional Major Program Requirements (51-63 units)

The Christian Behavioral Science major is a distinct and decidedly Christian perspective of human behavior. It addresses the relationship of biblical truth to the knowledge drawn from the Behavioral Sciences. This approach integrates psychology, anthropology, sociology and political science as academic disciplines with theology as a behavioral science.

Lower Division Requirements

Should be completed prior to enrollment in upper division Christian Behavioral Science

- BEH 100 - Survey of the Behavioral Sciences *OR*

- ANT 225 - Cultural Anthropology *OR*
- SOC 213 - Introduction to Sociology
- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey
- PSY 213 - General Psychology

Upper Division Introduction Requirements

- ANT 460 - Religion and Culture
- BEH 333 - Epistemology and Worldview
- CST 350 - Biblical Interpretation
- CST 370 - The Christian Faith
- PSY 322 - Theories of Personality **OR**
- ANT 430 - Culture and Personality

Upper Division Christian Behavioral Science Requirements

- CBS 303 - Marriage and Family in the Christian Community
- CBS 350 - Lifespan Development and Discipleship
- CBS 400 - Special Topics in Christian Behavioral Science
- CBS 403 - Congregation and Community
- CBS 415 - Biblical Wisdom and Human Behavior
- CBS 420 - Behavioral Implications of Theology
- CBS 423 - Models of Christian Counseling

Upper Division Elective Requirement

Complete three (3) units from the following:

- ANT 360 - Globalization and Culture
- CST 360 - Church History
- CST 425 - Christian Social Ethics

Optional Additional Concentrations* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

*Each optional concentration requires the completion of a minimum twelve (12) distinct units beyond the major.

Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

Medical Anthropology

- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- PSY 213 - General Psychology
- PSY 338 - Sensation and Perception
- PSY 473 - Psychophysiology

Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

Psychology, BA

Traditional Major Program Requirements (47-62 units)

The Psychology major prepares graduates for employment in public and private agencies and for graduate school in psychology and other related fields. The Psychology major explores the science of human behavior and mental processes. Graduates will understand the historical foundations of psychology and how theories are applied to modern practice. Students are encouraged to pair the Psychology major with an additional major or minor in a complimentary field.

Lower Division Requirement

- PSY 213 - General Psychology

Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

Upper Division Requirements

- PSY 301 - History and Systems of Psychology
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 325 - Tests and Measurements
- PSY 328 - Cognitive Psychology
- PSY 346 - Abnormal Psychology
- PSY 422 - Theories of Counseling
- PSY 473 - Psychophysiology
- BEH 480 - Capstone *OR*
- PSY 440 - Internship in Human Services

Optional Concentrations* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

*Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major.

Forensic Psychology

- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

Life Span Development

- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

Medical Anthropology

- ANT 225 - Cultural Anthropology *OR*
- BEH 100 - Survey of the Behavioral Sciences
- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- ANT 430 - Culture and Personality
- PSY 338 - Sensation and Perception

Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

Social Work, BSW

The Mission of California Baptist University's Bachelor of Social Work (BSW) Program is to develop generalist social work practitioners, who are biblically informed, legal, and ethically rooted, data-informed decision makers who are committed to serving within local, global, and congregational communities. Through the engagement and interprofessional collaboration of individuals and systems, CBU's BSW graduates will advance the health and well-being of individuals, families, groups, and communities, with a firm commitment to biblical social justice.

The BSW program strives to develop graduates with the highest integrity and ethics that will distinguish them in the workplace and the world. The BSW program is committed to pursuing Christ-centered justice by equipping graduates to live their purpose and glorify God through community-based social action both locally and globally.

BSW Program Goals:

- Prepare biblically informed social work generalist practitioners.
- Prepare students to serve diverse and historically oppressed groups utilizing data-informed strategies and skills to engage in human rights and social justice advocacy.
- Prepare students to engage in interprofessional collaboration to increase effectiveness in micro, mezzo, and macro outcomes, in local, global, and congregational settings.
- Generate change-oriented research and scholarship to promote social and economic justice.
- Provide educational opportunities to assist undergraduate students in gaining the competencies necessary for generalist social work practice.

The Council on Social Work Education (CSWE) provides strict accreditation guidelines and has identified nine competencies that students must master in a BSW program. In addition to these learning outcomes the CBU BSW program has included a 10th competency that focuses on an integration of Biblical values.

The Ten Competencies include:

1. Demonstrate ethical and professional behavior
2. Engage diversity and difference in practice

3. Advance human rights and social, economic, and environmental justice
4. Engage in practice-informed research and research-informed practice
5. Engage in policy practice
6. Engage with individuals, families, groups, organizations, and communities
7. Assess individuals, families, groups, organizations, and communities
8. Intervene with individuals, families, groups, organizations, and communities
9. Evaluate practice with individuals, families, groups, organizations, and communities
10. Articulate the Christian worldview in relation to social work ethics and values in professional social work practice

According to CSWE, "social work education should focus on the generation of knowledge, the promotion of evidence-informed practice through scientific inquiry, and the exercise of leadership within the professional community. Further, social work education is advanced by the scholarship of teaching and learning and scientific inquiry into its multifaceted dimensions, processes, and outcomes" (EPAS, 2015). These ten competencies are aligned with the university's core four values: academically prepared, biblically rooted , globally minded, and equipped to serve, which are reflected on each course syllabus.

Pre-Social Work Requirements (6 units)

- BEH 250 - Reading and Writing in the Behavioral Sciences
- SWK 300 - Introduction to Social Work

Traditional Degree Requirements (62 units)

Foundational Requirements

- SWK 315 - Congregational Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 345 - Trauma in Children
- SWK 380 - Introduction to Medical Social Work
- IPE 410 - Interprofessional Education: Exposure
- IPE 420 - Interprofessional Education: Immersion
- IPE 430 - Interprofessional Education: Competence

Foundational Elective Requirements

Complete nine (9) units from the following:

- ANT 320 - Ethnomedicine
- CBS 403 - Congregation and Community
- CJS 341 - Minorities and the Criminal Justice System
- HIS 311 - Minorities in America
- ICS 410 - Global and Urban Ministries
- SWK 361 - Global Social Work Policy
- SWK 371 - Spirituality and the Helping Professionals
- SWK 381 - Introduction to Child and Family Welfare
- SWK 400 - Special Topics in Social Work

Research Requirements

- BEH 290 - Introduction to Research Methods
- BEH 383 - Statistics and Research Methodology I

- BEH 385 - Statistics and Research Methodology II

Professional Requirements

- SWK 401 - Social Work Practice I
- SWK 405 - Social Work Practice II
- SWK 410 - Human Behavior and the Social Environment I
- SWK 415 - Human Behavior and the Social Environment II
- SWK 420 - Social Work Policy
- SWK 421 - Field Practicum I
- SWK 435 - Case Management
- SWK 451 - Field Practicum II
- SWK 462 - Marginalized Populations

Sociology, BA

Traditional Major Program Requirements (47-62 units)

The Sociology major prepares graduates for employment in social service careers, and for graduate study in Sociology and Social Work. The program is based on the traditional emphasis of institutions, collective behavior and the socialization process. The program provides the core foundation for understanding the social structure and its patterns, stressing the influence of systems, and highlighting issues and policy necessary for completing a graduate program in social work. Students are encouraged to pursue a complimentary minor. Students may complete a double major in Psychology and Sociology by substituting overlapping courses. Sociology majors may also complete a Psychology or Christian Behavioral Science minor.

Lower Division Requirements

- SOC 213 - Introduction to Sociology

Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

Upper Division Requirements

- SOC 335 - Social Problems
- SOC 337 - Deviant Behavior
- SOC 345 - Race and Ethnicity
- SOC 347 - Sociology of Gender
- SOC 381 - Social Theory

Concentration Courses (15 Units)

Students must complete all requirements in the Cultural Sociology concentration

Cultural Sociology (15 Units)

- SOC 323 - Marriage and the Family
- SOC 338 - Group Dynamics and Social Movements
- SOC 348 - Sociology of Aging
- SOC 355 - Social Stratification
- BEH 480 - Capstone *OR*
- SOC 440 - Internship in Sociology

Optional Additional Concentrations* (12-15 units)

Students can earn an optional concentration in one of the following areas: Forensic Psychology; Industrial and Organizational Psychology; Life Span Development; Medical Anthropology; Social Work; Sports Psychology

*Each optional concentration requires the completion of a minimum twelve (12) distinct upper division units beyond the major.

Forensic Psychology

- PSY 213 - General Psychology
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 350 - Introduction to Forensic Psychology
- PSY 404 - Psychopathic Mind
- PSY 443 - Social Psychology

Industrial and Organizational Psychology

- BUS 435 - Leadership in Organizations
- BUS 463 - Business and Organizational Management
- PSY 213 - General Psychology
- PSY 388 - Industrial and Organizational Psychology
- PSY 443 - Social Psychology

Life Span Development

- PSY 213 - General Psychology
- PSY 305 - Developmental Psychology: Child
- PSY 315 - Developmental Psychology: Adolescence and Adulthood
- PSY 443 - Social Psychology
- PSY 453 - Psychology of Learning

Medical Anthropology

- ANT 225 - Cultural Anthropology *OR*
- BEH 100 - Survey of the Behavioral Sciences
- ANT 315 - Health and Holistic Healing
- ANT 320 - Ethnomedicine
- ANT 430 - Culture and Personality
- PSY 473 - Psychophysiology

Social Work

- SWK 300 - Introduction to Social Work
- SWK 335 - Substance Use Disorders, Treatment, and Recovery
- SWK 340 - Mental Health First Aid
- SWK 345 - Trauma in Children

Sports Psychology

- KIN 454 - Behavioral Aspects of Sport
- PSY 213 - General Psychology
- PSY 360 - Sports Psychology
- PSY 443 - Social Psychology
- PSY 458 - Motivation and Emotion

Anthropology Minor

Traditional Minor Program Requirements (21 units)

Lower Division Requirement

- ANT 225 - Cultural Anthropology

Upper Division Requirements

- ANT 325 - Physical Anthropology and Archaeology
- ANT 340 - Theory in Anthropology
- BEH 333 - Epistemology and Worldview

Upper Division Elective Requirements

- Nine (9) additional upper division units in Anthropology

Behavioral Science Minor

Traditional Minor Program Requirements (21 units)

General Prerequisites

- ANT 225 - Cultural Anthropology *OR*
- SOC 213 - Introduction to Sociology

- BEH 100 - Survey of the Behavioral Sciences
- PSY 213 - General Psychology

Upper Division Requirements

- ANT 430 - Culture and Personality

- PSY 322 - Theories of Personality
- SOC 381 - Social Theory
- Twelve (12) units of Upper Division Anthropology, Christian Behavioral Science, Psychology or Sociology

Christian Behavioral Science Minor

Traditional Minor Program Requirements (21 units)

General Prerequisites

- BEH 100 - Survey of the Behavioral Sciences **OR**
- SOC 213 - Introduction to Sociology **OR**
- ANT 225 - Cultural Anthropology

- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey
- PSY 213 - General Psychology

Upper Division Introduction Requirements

- BEH 333 - Epistemology and Worldview
- CST 370 - The Christian Faith
- PSY 322 - Theories of Personality

Upper Division Christian Behavioral Science Requirement

- CBS 350 - Lifespan Development and Discipleship

Upper Division Elective Requirements

- Complete nine (9) additional units in Christian Behavioral Science

Psychology Minor

Traditional Minor Program Requirements (21 units)

General Prerequisite

- PSY 213 - General Psychology

Upper Division Requirements

*Minor students may use elective units toward a Departmental Concentration.

- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 473 - Psychophysiology
- Twelve (12) units of Upper Division Psychology*

Sociology Minor

Traditional Minor Program Requirements (21 units)

Prerequisite

- SOC 213 - Introduction to Sociology

Upper Division Requirements

*Minor students may use elective units toward a Departmental Concentration.

- SOC 323 - Marriage and the Family
- SOC 335 - Social Problems
- SOC 381 - Social Theory
- Twelve (12) units of Upper Division Sociology*

Gordon and Jill Bourns College of Engineering

Dr. Philip VanHaaster
Dean

Dr. Mark Anklam
Associate Dean

Ms. Kiana Bjur
Administrative Assistant
Phone 951.343.4972
engineering@calbaptist.edu

Faculty Information

Departments

Aerospace, Industrial, and Mechanical Engineering	
Chemical Engineering and Bioengineering	Sarah Zhao, Ph.D.
Civil Engineering and Construction Management	Jong-Wha Bai, Ph.D.
Computing, Software, and Data Sciences	Larry Clement, M.S., M.A.
Electrical and Computer Engineering	Seunghyun Chun, Ph.D.

Through the Gordon and Jill Bourns College of Engineering at California Baptist University the Biomedical Engineering, Chemical Engineering, Civil Engineering, Electrical and Computer Engineering, and Mechanical Engineering degree programs are accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org. The Construction Management major is accredited by the American Council for Construction Education (ACCE), www.acce-hq.org.

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, about 20% of engineering students take their training and end up being doctors, lawyers, teachers, professors, officers, business entrepreneurs and salespeople. Students have also used their training as missionaries and pastors.

Distinctives of the College of Engineering include:

- A caring, Christ centered learning community with outstanding faculty
- Both "excellent" and "average" students will have opportunities for growth
- Hands on, team oriented design projects all four years
- Required internships with industry, university research or a non-profit organization prior to graduation
- Training in project management and an exposure to the business side of engineering
- All students will be shown how to obtain a provisional patent on their own creative idea
- Emphasis on broad life skill training (e.g. critical thinking, teamwork, communication etc.)
- All students are required to pass the Fundamentals of Engineering practice exam or an equivalent program assessment to graduate.
- All students will be required to have a cross cultural experience
- All students will develop and maintain an electronic portfolio

Numerous regional businesses are actively involved with the College of Engineering through hiring alumni for jobs and students as interns, sponsoring capstone projects, serving on the strategic advisory board and departmental advisory

councils, providing curriculum partners, funding student scholarships and equipment, and providing tours and guest lectures.

Areas of focus for research within the College of Engineering includes: outstanding undergraduate curriculum development, applications relating to human health, applications for green and sustainable technologies, and applications which have global implications.

The Engineering Degree has concentrations in Agricultural, Business, Global Applications, and Pre-Law.

Biomedical Engineering, BSBME

Traditional Degree Program Requirements (124-142 units)

Biomedical Engineers study the human body from an engineering perspective and create high-tech solutions for improving human health. They are well-suited for the design and development of implantables, such as artificial joints or stents, wearables, such as glucose monitors or artificial limbs, and healthcare equipment, such as a medical imaging systems or surgical consoles. Many biomedical engineering graduates select to join cutting-edge research programs where they use their knowledge of science and engineering to expand our understanding of human conditions and develop novel methods to treat disease and disabilities. Through the College of Engineering at California Baptist University the Biomedical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Biomedical Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Biomedical Engineering requirements.

Math and Science Unit Requirements

† A minimum of thirty (30) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

Lower Division Core Engineering Requirements (16 units)

* Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview *OR*
- EGR 301 - Engineering from a Christian Worldview *
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I *OR*
- EGR 303 - Engineering Service II *
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I *OR*
- EGR 392 - Engineering Seminar II

Upper Division Core Engineering Requirements (15 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics †
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 403 - FE Exam
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (31 units)

- BIO 146 - General Biology I with Lab †
- BIO 153 - Anatomy and Physiology I †
- BIO 153L - Anatomy and Physiology I Lab †
- CHE 115 - General Chemistry I †
- CHE 115L - General Chemistry I Lab †
- EGR 182 - Introductory Mathematics for Engineering Applications †
- EGR 382 - Applied Differential Equations and Linear Algebra †
- MAT 245 - Analytical Geometry and Calculus I †
- MAT 255 - Analytical Geometry and Calculus II †
- PHY 201 - Physics for Engineers I with Lab †

Lower Division Biomedical Engineering Requirements (18 units)

- EGR 231 - Circuit Theory I
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- EGR 261 - Fundamentals of Bioengineering I
- EGR 262 - Fundamentals of Bioengineering II
- EGR 263 - Introduction to 3D Computer Aided Design

Upper Division Biomedical Engineering Requirements (14 units)

- EGR 361 - Introduction to Biomechanics
- EGR 362 - Engineering Physiology
- EGR 462 - Biomaterials I: Fundamentals of Concepts
- EGR 463 - Biomaterials II: Polymers for Biomedical Applications
- EGR 464 - Neural Engineering

Additional Degree Requirements (0 units)

- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship.

Concentration Courses (16-19 units)

Students must complete all requirements in one of the following concentrations: General Studies; Mechanical Systems

General Studies (16 units)

- EGR 363 - Biofluid Mechanics and Relevant Technologies
- EGR 364 - Bioimaging
- EGR 365 - Biomedical Engineering Research and Instrumentation

General Studies Science Elective Requirement

Complete four (4) units in science from the following:

- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 313 - Genetics
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- PHY 203 - Physics for Engineers II with Lab

General Studies Engineering Elective Requirement

Complete three (3) additional units from the following:

- EGR 324 - Engineering Economics
- EGR 341 - Thermodynamics
- EGR 343 - Dynamics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 351 - Structural Analysis I
- EGR 356 - Hydrology
- EGR 381 - Operations Research I: Deterministic Methods
- EGR 383 - Quality Control
- EGR 384 - Human Factors and Ergonomics
- EGR 386 - Operations Research II: Probabilistic Methods
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 448 - Propulsion
- EGR 481 - Systems Simulation
- EGR 491 - Research Project

Mechanical Systems (19 units)

- EGR 363 - Biofluid Mechanics and Relevant Technologies
- EGR 364 - Bioimaging
- PHY 203 - Physics for Engineers II with Lab
- EGR 365 - Biomedical Engineering Research and Instrumentation

Mechanical Systems Elective Requirements

Complete six (6) additional units from the following:

- EGR 341 - Thermodynamics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 445 - Thermal Design of Heat Exchangers
- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 448 - Propulsion
- PHY 310 - Waves and Optics with Lab

Chemical Engineering, BSChE

Traditional Degree Program Requirements (124-128 units)

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople. Through the College of Engineering at California Baptist University the Chemical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Chemical Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Chemical Engineering requirements.

Math and Science Unit Requirements

† A minimum of thirty (30) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

Lower Division Core Engineering Requirements (16 units)

** Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview ** **OR**
- EGR 301 - Engineering from a Christian Worldview **
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I ** **OR**
- EGR 303 - Engineering Service II **
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I ** **OR**
- EGR 392 - Engineering Seminar II **

Upper Division Core Engineering Requirements (14 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics †
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (39 units)

- CHE 115 - General Chemistry I †
- CHE 115L - General Chemistry I Lab †
- CHE 125 - General Chemistry II †
- CHE 125L - General Chemistry II Lab †
- CHE 351 - Organic Chemistry I with Lab †
- CHE 352 - Organic Chemistry II with Lab †
- EGR 182 - Introductory Mathematics for Engineering Applications †
- MAT 245 - Analytical Geometry and Calculus I †
- MAT 255 - Analytical Geometry and Calculus II †
- MAT 342 - Fundamentals of Multivariable Calculus and Differential Equations for Engineers †
- PHY 201 - Physics for Engineers I with Lab †
- PHY 203 - Physics for Engineers II with Lab †

Lower Division Chemical Engineering Requirement (4 units)

- EGR 271 - Basic Principles and Calculations in Chemical Engineering I
- EGR 272 - Basic Principles and Calculations in Chemical Engineering II

Upper Division Chemical Engineering Requirements (31 units)

- EGR 324 - Engineering Economics
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 371 - Heat and Mass Transport
- EGR 372 - Chemical Engineering Thermodynamics
- EGR 373 - Materials Engineering and Selection
- EGR 374 - Separations
- EGR 473 - Chemical Reaction Engineering
- EGR 474 - Chemical Process Control
- EGR 475 - Process Safety
- EGR 477 - Chemical Engineering Laboratory

Elective Engineering Requirement (3 units)

Complete three (3) units from the following:

- EGR 231 - Circuit Theory I
- EGR 241 - Statics
- EGR 356 - Hydrology
- EGR 445 - Thermal Design of Heat Exchangers
- EGR 447 - Mechanics of Composite Structures
- EGR 453 - Environmental Engineering I
- EGR 463 - Biomaterials II: Polymers for Biomedical Applications

Elective Requirement (3 units)

Complete three (3) additional approved engineering, science, applied math, or business units.

Recommended:

- BIO 146 - General Biology I with Lab
- EGR 231 - Circuit Theory I
- EGR 256 - Principles of Environmental Engineering and Science
- ENT 442 - Opportunity and the Lean Startup
- CHE 443 - Biochemistry I with Lab
- MAT 453 - Numerical Analysis

Additional Degree Requirements (0 units)

- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Successfully pass the practice FE exam.
- Complete pre-approved 200 hours of supervised internship.

Civil Engineering, BSCE

Traditional Degree Program Requirements (124-129 units)

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople. Through the College of Engineering at California Baptist University the Civil Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Civil Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Civil Engineering requirements.

Math and Science Unit Requirements

†A minimum of thirty (30) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

Lower Division Core Engineering Requirements (16 units)

* Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview * **OR**
- EGR 301 - Engineering from a Christian Worldview *
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I * **OR**
- EGR 303 - Engineering Service II *
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I * **OR**
- EGR 392 - Engineering Seminar II *

Upper Division Core Engineering Requirements (11 units)

- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics †
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (29 units)

- BIO 204 - Microbiology for Engineers †
- CHE 115 - General Chemistry I †
- CHE 115L - General Chemistry I Lab †
- EGR 182 - Introductory Mathematics for Engineering Applications †
- EGR 382 - Applied Differential Equations and Linear Algebra † **OR**
- MAT 303 - Linear Algebra with Applications to Differential Equations † **OR**
- MAT 413 - Differential Equations †

- MAT 245 - Analytical Geometry and Calculus I †
- MAT 255 - Analytical Geometry and Calculus II †
- MAT 343 - Multivariable Calculus †
- PHY 201 - Physics for Engineers I with Lab †

Lower Division Civil Engineering Requirements (16 units)

- EGR 241 - Statics
- EGR 242 - Strength of Materials
- EGR 251 - Surveying
- EGR 254 - Materials Engineering
- EGR 256 - Principles of Environmental Engineering and Science †

Upper Division Civil Engineering Requirements (39 units)

- EGR 342 - Fluid Mechanics
- EGR 351 - Structural Analysis I
- EGR 352 - Structural Design I
- EGR 353 - Soil Mechanics
- EGR 354 - Soil and Foundation Engineering
- EGR 355 - Dynamics and Vibration
- EGR 356 - Hydrology
- EGR 451 - Project and Construction Management
- EGR 453 - Environmental Engineering I
- EGR 455 - Structural Design II
- EGR 458 - Water Resources Engineering
- Six (6) additional upper division approved engineering elective units

Additional Degree Requirements (0 units)

- Successfully pass the practice FE Exam
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship

Computer Science, BCS

Traditional Degree Program Requirements (124 units)

Computer scientists study computers: their design, their use for computation and control, and especially their software components. Computer scientists can perform roles ranging from systems design and architecture through software design, development and maintenance, through analysis and research. Often, software developers will have a degree in computer science. An essential element of computer science is the mathematical and theoretical foundation of computing and software. As one of the most rapidly developing and expanding fields, computer science offers a wide range of career choices.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Computer Science requirements. Approximately eighteen (18) units of general education are not met in the specific core and Computer Science requirements.

Math and Science Unit Requirements

†A minimum of thirty (30) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

Lower Division Core Engineering Requirements (16 units)

* Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview *OR*

- EGR 301 - Engineering from a Christian Worldview *
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I *OR*
- EGR 303 - Engineering Service II *
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I *OR*
- EGR 392 - Engineering Seminar II *

Upper Division Core Engineering Requirements (14 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics †
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (30 units)

- CSC 312 - Algorithms †
- EGR 182 - Introductory Mathematics for Engineering Applications †
- EGR 225 - Discrete Structures I †
- MAT 245 - Analytical Geometry and Calculus I †
- MAT 255 - Analytical Geometry and Calculus II †
- PHY 201 - Physics for Engineers I with Lab †
- PHY 203 - Physics for Engineers II with Lab †
- Two (2) units of approved science †

Lower Division Computing and Software Requirements (12 units)

- EGR 222 - Software Engineering
- EGR 223 - Software Engineering Approach to Human Computer Interaction
- EGR 226 - Operating Systems and Networking
- EGR 227 - Data Structures and Analysis

Upper Division Computer Science Requirements (29 units)

- CSC 311 - Compiler Design and Languages
- CSC 411 - Social and Professional Issues in Computing
- CSC 412 - Intelligent Systems
- CSC 413 - Information Security and Computer Forensics
- CSC 414 - Theory of Computation
- EGR 324 - Engineering Economics
- EGR 325 - Database Systems
- EGR 329 - Computer Architecture

- EGR 425 - Real Time and Embedded Development

Additional Degree Requirements (0 units)

- Computer Science students are required to complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship.
- Complete the program assessment exam requirement.

Construction Management, BS

Traditional Major Program Requirements (86 units)

The Construction Management program prepares men and women for management and supervisory professions in the world of construction. This program focuses on field operations, estimating, and project management processes as they relate to the built environment.

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 217 - Microeconomics *OR*
- BUS 218 - Macroeconomics
- CHE 102 - Fundamentals of Chemistry *OR*
- ENV 151 - Introduction to the Geosciences
- CON 105 - Introduction to Construction Management
- CON 205 - Plan Reading and Estimating
- CON 215 - Computer-Aided Drafting and Design
- EGR 101 - Engineering from a Christian Worldview
- EGR 103 - Engineering Service I
- EGR 241 - Statics
- EGR 251 - Surveying
- MAT 245 - Analytical Geometry and Calculus I *OR*
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 214 - Physics I **AND**
- PHY 214L - Physics I Lab
  OR
- PHY 201 - Physics for Engineers I with Lab
- STA 144 - Introduction to Statistics

Upper Division Requirements

- BUS 358 - Business Law
- BUS 463 - Business and Organizational Management
- CON 310 - Construction Materials and Methods
- CON 315 - Building Information Modeling
- CON 325 - Construction Company Financial Management
- CON 330 - Construction Safety
- CON 340 - Building Structures
- CON 350 - Project Delivery, Law and Contracts

- CON 430 - Advanced Estimating
- CON 460 - Construction Planning and Scheduling
- CON 470 - Mechanical Electrical and Piping Construction
- EGR 304 - Leadership Cohort
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation
- EGR 451 - Project and Construction Management

Additional Requirements (0 units)

- Complete pre-approved 200 hours of supervised internship.
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.

Electrical and Computer Engineering, BSECE

Traditional Degree Program Requirements (124-127 units)

Electrical and Computer Engineering is a profession in great demand. From supercomputers and robotics to self-driving electric vehicles and renewable energy, electrical and computer engineers are improving the quality of life everywhere in the world. Students in this major study electrical and electronic circuits, control systems, telecommunication systems, signal processing, computers, microcontrollers, and other digital systems. CBU's electrical and computer engineering program trains students to become problem solvers and innovators with the technologies of the 21st century. Through the College of Engineering at California Baptist University the Electrical and Computer Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Electrical and Computer Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Electrical and Computer Engineering requirements.

Math and Science Unit Requirements

† A minimum of thirty (30) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

Lower Division Core Engineering Requirements (16 units)

* Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview * *OR*
- EGR 301 - Engineering from a Christian Worldview *
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I * *OR*
- EGR 303 - Engineering Service II *

- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I * *OR*
- EGR 392 - Engineering Seminar II *

Upper Division Core Engineering Requirements (15 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics †
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 403 - FE Exam
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (30-31 units)

- EGR 182 - Introductory Mathematics for Engineering Applications †
- EGR 382 - Applied Differential Equations and Linear Algebra †
- MAT 245 - Analytical Geometry and Calculus I †
- MAT 255 - Analytical Geometry and Calculus II †
- MAT 343 - Multivariable Calculus †
- PHY 201 - Physics for Engineers I with Lab †
- PHY 203 - Physics for Engineers II with Lab †

Science Elective Requirement

Complete three (3) additional units in Science †

Recommendations include:

- BIO 146 - General Biology I with Lab
- BIO 153 - Anatomy and Physiology I
- CHE 115 - General Chemistry I

Lower Division Electrical and Computer Engineering Requirements (15 units)

- EGR 221 - Data Structures
- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 234 - Digital Logic Design

Upper Division Electrical and Computer Engineering Requirements (33 units)

- EGR 321 - Computer Organization
- EGR 322 - Microcontroller System Design
- EGR 331 - Signals and Systems

- EGR 333 - Electronics I
- EGR 334 - Electronics II
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 431 - Control Systems
- EGR 432 - Applied Electromagnetics
- EGR 433 - Power Electronics
- Six (6) additional upper division approved engineering elective units

Additional Degree Requirements (0 units)

- Successfully pass the practice FE Exam
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship

Engineering, BSE

(also see Biomedical Engineering, BSBME, Chemical Engineering, BSChE, Civil Engineering, BSCE, Electrical and Computer Engineering, BSECE, Mechanical Engineering, BSME, and Software Engineering, BSSE)

Traditional Degree Program Requirements (124-131 units)

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of vocational outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific engineering requirements. Approximately twelve (12) to eighteen (18) units of general education are not met in the specific core and engineering requirements.

Lower Division Core Engineering Requirements (16 units)

* Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview * **OR**
- EGR 301 - Engineering from a Christian Worldview *
- EGR 102 - Introduction to Engineering Design **OR**
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I * **OR**
- EGR 303 - Engineering Service II *
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I **OR**
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I * **OR**
- EGR 392 - Engineering Seminar II *

Upper Division Core Engineering Requirements (14 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (16 units)

- EGR 182 - Introductory Mathematics for Engineering Applications
- MAT 245 - Analytical Geometry and Calculus I
- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab **OR**
- CHE 115 - General Chemistry I

Upper Division General Engineering Elective Requirements (9 units)

Complete nine (9) additional upper division engineering elective units

Recommendations include:

- EGR 332 - Communication Systems
- EGR 341 - Thermodynamics
- EGR 354 - Soil and Foundation Engineering
- EGR 431 - Control Systems
- EGR 432 - Applied Electromagnetics
- EGR 441 - Heat Transfer
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 443 - Mechanical Vibrations
- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 451 - Project and Construction Management
- EGR 453 - Environmental Engineering I
- EGR 455 - Structural Design II

Additional Degree Requirements (0 units)

- Successfully pass the practice FE Exam
- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship

Concentration Courses (42-60 units)

Students must complete all requirements in one of the following concentrations: Agricultural; Business; Civil Engineering; Global Applications; Internet of Things; Mechanical Engineering; Pre-Law

Agricultural (57 units)

Lower Division Requirements

- BIO 114 - General Botany with Lab
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 255 - Analytical Geometry and Calculus II
- NFS 101 - Introduction to Nutrition and Food Sciences

Upper Division Requirements

- BIO 305 - Microbiology with Lab
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 346 - Machine Design
- EGR 353 - Soil Mechanics
- EGR 356 - Hydrology
- EGR 371 - Heat and Mass Transport
- EGR 382 - Applied Differential Equations and Linear Algebra
- EGR 453 - Environmental Engineering I
- EGR 454 - Environmental Engineering II
- EGR 458 - Water Resources Engineering

Business (50-51 units)

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BIO 146 - General Biology I with Lab
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CHE 115 - General Chemistry I
- CIS 265 - Information Systems Essentials

Lower Division Engineering Elective Requirements

Complete one (1) of the following courses:

- EGR 231 - Circuit Theory I
- EGR 234 - Digital Logic Design
- EGR 241 - Statics

Upper Division Requirements

- BUS 358 - Business Law
- BUS 334 - International Business

- BUS 463 - Business and Organizational Management
- MKT 333 - Principles of Marketing

Upper Division Engineering Elective Requirements

Complete nine (9) additional upper division approved engineering elective units from the following:

Civil Engineering (45 units)

Lower Division Requirements

- EGR 241 - Statics
- EGR 242 - Strength of Materials
- EGR 251 - Surveying
- EGR 254 - Materials Engineering
- EGR 256 - Principles of Environmental Engineering and Science
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- EGR 342 - Fluid Mechanics
- EGR 351 - Structural Analysis I
- EGR 352 - Structural Design I
- EGR 353 - Soil Mechanics
- EGR 356 - Hydrology
- EGR 382 - Applied Differential Equations and Linear Algebra **OR**
- MAT 303 - Linear Algebra with Applications to Differential Equations **OR**
- MAT 413 - Differential Equations
- EGR 458 - Water Resources Engineering
- MAT 343 - Multivariable Calculus

Global Applications (44-45 units)

Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 115 - General Chemistry I
- ICS 105 - Introduction to Global Studies
- ICS 205 - Models of Discipleship
- SOC 213 - Introduction to Sociology

Lower Division Engineering Elective Requirement

Complete one (1) of the following courses:

- EGR 231 - Circuit Theory I
- EGR 234 - Digital Logic Design
- EGR 241 - Statics

Upper Division Requirements

- ICS 305 - Global Christianity
- ICS 430 - Intercultural Communication and Practice
- PHI 353 - Comparative Religions
- POL 415 - World Geography

Upper Division Engineering Elective Requirements

Complete nine (9) additional upper division approved engineering elective units from the following:

- EGR (300 or 400 level)
- CON (300 or 400 level)
- CSC (300 or 400 level

Internet of Things (42 units)

Lower Division Requirements

- CYB 220 - Security by Design
- EGR 221 - Data Structures
- EGR 222 - Software Engineering
- EGR 223 - Software Engineering Approach to Human Computer Interaction
- EGR 226 - Operating Systems and Networking

Upper Division Requirements

Complete twenty-seven (27) additional upper division approved engineering elective units from the following:

- CIT 360 - Legal and Ethical Practices in Information Technology
- CIT 380 - Computer and Network Security
- CIT 460 - Business Networking
- CSC 412 - Intelligent Systems
- CYB 390 - Database Security
- CYB 410 - Defensive Security
- CYB 420 - Offensive Security
- CYB 430 - Computer Forensics
- CYB 440 - Cybersecurity Management
- CYB 470 - Network Defense
- CYB 480 - Essential Tenets of Cybersecurity
- EGR 323 - Software Requirements and Analysis
- EGR 324 - Engineering Economics
- EGR 325 - Database Systems
- EGR 327 - Software Construction
- EGR 423 - Mobile Applications Development
- EGR 424 - Web Application Development

Mechanical Engineering (54 units)

Lower Division Requirements

- CHE 115 - General Chemistry I

- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- EGR 331 - Signals and Systems
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 382 - Applied Differential Equations and Linear Algebra **OR**
- MAT 303 - Linear Algebra with Applications to Differential Equations **OR**
- MAT 413 - Differential Equations
- MAT 343 - Multivariable Calculus

Pre-Law (59-60 units)

Lower Division Requirements

- BIO 146 - General Biology I with Lab
- CHE 115 - General Chemistry I
- COM 113 - Oral Communication
- POL 213 - American Government
- POL 223 - State and Local Government

Lower Division Engineering Elective Requirement

Complete one (1) of the following courses:

- EGR 231 - Circuit Theory I
- EGR 234 - Digital Logic Design
- EGR 241 - Statics

Upper Division Requirements

- BUS 358 - Business Law
- BUS 359 - Intellectual Property Law
- COM 401 - Argumentation and Debate
- PAD 453 - Administrative Law and Bureaucracy
- PHI 300 - Logic
- PHI 323 - Ethics
- PHI 324 - Applied Ethics
- POL 330 - Law and Literature
- POL 440 - Pre-Law Internship (3 units)
- POL 484 - Constitutional Law I

Upper Division Engineering Elective Requirements

Nine (9) additional upper division approved engineering elective units

Mechanical Engineering, BSME

Traditional Degree Program Requirements (124-130 units)

Engineers provide products and services that serve the needs of humanity. Engineers see problems and challenges as opportunities in disguise. Engineering graduates are highly sought after for their critical thinking, communication and team skills and are thus well compensated. Engineering degrees prepare students for the broadest number of outcomes. In addition to a growing variety of engineering jobs, engineering students use their training as doctors, lawyers, teachers, professors, missionaries, military officers, business entrepreneurs and salespeople. Through the College of Engineering at California Baptist University the Mechanical Engineering degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific mechanical engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and mechanical engineering requirements.

Math and Science Unit Requirements

† A minimum of thirty (30) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

Lower Division Core Engineering Requirements (16 units)

* Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview **OR**
- EGR 301 - Engineering from a Christian Worldview *
- EGR 102 - Introduction to Engineering Design *OR*
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I **OR**
- EGR 303 - Engineering Service II *
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I *OR*
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I **OR**
- EGR 392 - Engineering Seminar II *

Upper Division Core Engineering Requirements (14 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics †
- EGR 306 - Internship Preparation

- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (31 units)

- CHE 115 - General Chemistry I †
- CHE 115L - General Chemistry I Lab †
- EGR 182 - Introductory Mathematics for Engineering Applications †
- MAT 245 - Analytical Geometry and Calculus I †
- MAT 255 - Analytical Geometry and Calculus II †
- MAT 343 - Multivariable Calculus †
- EGR 382 - Applied Differential Equations and Linear Algebra † **OR**
- MAT 303 - Linear Algebra with Applications to Differential Equations † **OR**
- MAT 413 - Differential Equations †
- PHY 201 - Physics for Engineers I with Lab †
- PHY 203 - Physics for Engineers II with Lab †

Lower Division Mechanical Engineering Requirements (14 units)

- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 241 - Statics
- EGR 242 - Strength of Materials

Upper Division Mechanical Engineering Requirements (37 units)

- EGR 331 - Signals and Systems
- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 431 - Control Systems
- EGR 441 - Heat Transfer
- EGR 442 - Computer-Aided Engineering Design and Visualization
- EGR 443 - Mechanical Vibrations
- EGR 444 - Mechanical Engineering Laboratory
- Three (3) additional upper division approved engineering elective units

Additional Degree Requirements (0 units)

Successfully pass the practice FE Exam

Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.

Complete pre-approved 200 hours of supervised internship.

Software Engineering, BSSE

Traditional Degree Program Requirements (124 units)

Software engineers work to produce effective software applications for the benefit and use of mankind. They work in almost every industry creating and enhancing software as either a product or supporting mechanism. Software engineers are educated to analyze, problem solve, create, and optimize complex systems. They work over a wide range of scales, designing and implementing software in a predictable and reliable manner.

General Education

The general education requirements will follow the curriculum set forth for other University programs. Some general education requirements will be met through specific Software Engineering requirements. Approximately eighteen (18) units of general education are not met in the specific core and Software Engineering requirements.

Math and Science Unit Requirements

† A minimum of thirty (30) units of Math or Science coursework is required for the degree. Courses in the degree designated with a '†' meet this requirement.

Lower Division Core Engineering Requirements (16 units)

* Junior/Senior transfer students will complete EGR 301, EGR 303, and EGR 392. All other students will complete EGR 101, EGR 103, and EGR 192.

- EGR 101 - Engineering from a Christian Worldview **OR**
- EGR 301 - Engineering from a Christian Worldview *
- EGR 102 - Introduction to Engineering Design **OR**
- EGR 106 - Introduction to Engineering Design - Energy Systems
- EGR 103 - Engineering Service I **OR**
- EGR 303 - Engineering Service II *
- EGR 121 - Introduction to Computer Programming in C++
- EGR 122 - Visualization Languages I **OR**
- EGR 124 - Visualization Languages - Excel
- EGR 192 - Engineering Seminar I **OR**
- EGR 392 - Engineering Seminar II *

Upper Division Core Engineering Requirements (14 units)

- EGR 302 - Engineering Design and Documentation
- EGR 304 - Leadership Cohort
- EGR 305 - Engineering Statistics †
- EGR 306 - Internship Preparation
- EGR 401 - Capstone Design
- EGR 402 - Capstone Design and Presentation
- EGR 405 - Internship Report and Presentation

Math and Science Requirements (30 units)

- CSC 312 - Algorithms †
- EGR 182 - Introductory Mathematics for Engineering Applications †
- EGR 225 - Discrete Structures I †

- MAT 245 - Analytical Geometry and Calculus I †
- MAT 255 - Analytical Geometry and Calculus II †
- PHY 201 - Physics for Engineers I with Lab †
- PHY 203 - Physics for Engineers II with Lab †
- Two (2) units of approved science †

Lower Division Software Engineering Requirements (12 units)

- EGR 222 - Software Engineering
- EGR 223 - Software Engineering Approach to Human Computer Interaction
- EGR 226 - Operating Systems and Networking
- EGR 227 - Data Structures and Analysis

Upper Division Software Engineering Requirements (31 units)

- EGR 323 - Software Requirements and Analysis
- EGR 324 - Engineering Economics
- EGR 325 - Database Systems
- EGR 326 - Software Design and Architecture
- EGR 327 - Software Construction
- EGR 329 - Computer Architecture
- EGR 423 - Mobile Applications Development
- EGR 424 - Web Application Development
- EGR 425 - Real Time and Embedded Development
- EGR 427 - Software Project Management

Additional Degree Requirements (0 units)

- Complete an approved cross-cultural experience. Course credit is not required. A list of approved experiences is available in the College of Engineering.
- Complete pre-approved 200 hours of supervised internship
- Complete the program assessment exam requirement

Aerospace Engineering Minor

Traditional Minor Program Requirements (25 units)

Lower Division Requirements

- EGR 182 - Introductory Mathematics for Engineering Applications **OR**
- MAT 245 - Analytical Geometry and Calculus I

- EGR 241 - Statics
- EGR 242 - Strength of Materials

Upper Division Mechanical Engineering Elective Requirements

Complete six (6) upper division units from the following:

- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 443 - Mechanical Vibrations
- EGR 444 - Mechanical Engineering Laboratory

Upper Division Aerospace Engineering Elective Requirements

Complete six (6) upper division units from the following:

- EGR 446 - Aerodynamics
- EGR 447 - Mechanics of Composite Structures
- EGR 448 - Propulsion

Upper Division Elective Requirement

Complete three (3) upper division units from the following:

- AVN 322 - Aviation Safety
- AMG 324 - Aviation Security
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 445 - Thermal Design of Heat Exchangers
- FLT 328 - Aircraft Systems

Biomechanics and Rehabilitation Engineering Minor

Traditional Minor Program Requirements (26 units)

Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 245 - Analytical Geometry and Calculus I

Upper Division Requirements

- EGR 305 - Engineering Statistics
- EGR 361 - Introduction to Biomechanics
- EGR 365 - Biomedical Engineering Research and Instrumentation

- EGR 461 - Rehabilitation Engineering **OR**
- EGR 464 - Neural Engineering

- EGR 491 - Research Project

Chemical Engineering Minor

Traditional Minor Program Requirements (32 units)

Lower Division Requirements

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- EGR 271 - Basic Principles and Calculations in Chemical Engineering I
- EGR 272 - Basic Principles and Calculations in Chemical Engineering II
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- MAT 342 - Fundamentals of Multivariable Calculus and Differential Equations for Engineers
- EGR 342 - Fluid Mechanics
- EGR 371 - Heat and Mass Transport
- EGR 473 - Chemical Reaction Engineering *OR*
- EGR 474 - Chemical Process Control

Computer Engineering Minor

See also the following majors and minors:

- Electrical and Computer Engineering, BSECE
- Computer Science Minor
- Computer Science, BCS

Traditional Minor Program Requirements (34 units)

Lower Division Requirements

- EGR 121 - Introduction to Computer Programming in C++ *OR*
- CIS 268 - Computer Programming Languages

- EGR 182 - Introductory Mathematics for Engineering Applications *OR*
- MAT 245 - Analytical Geometry and Calculus I

- EGR 221 - Data Structures
- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 234 - Digital Logic Design

Upper Division Requirements

- EGR 321 - Computer Organization
- EGR 322 - Microcontroller System Design

- EGR 335 - Data Acquisition, Design and Visualization
- EGR 435 - Advanced Digital System Design Using FPGAs

Computer Science Minor

Traditional Minor Program Requirements (23 units)

Lower Division Requirements

- EGR 121 - Introduction to Computer Programming in C++ **OR**
- CIS 268 - Computer Programming Languages

- EGR 225 - Discrete Structures I
- EGR 227 - Data Structures and Analysis

Upper Division Requirements

- CSC 312 - Algorithms
- CSC 411 - Social and Professional Issues in Computing
- EGR 329 - Computer Architecture

Upper Division Elective Requirements

Complete six (6) units from the following:

- CSC 311 - Compiler Design and Languages
- CSC 412 - Intelligent Systems
- CSC 413 - Information Security and Computer Forensics
- CSC 414 - Theory of Computation
- EGR 325 - Database Systems
- EGR 425 - Real Time and Embedded Development

Construction Management Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirements

- CON 105 - Introduction to Construction Management
- CON 205 - Plan Reading and Estimating

Upper Division Requirements

- CON 310 - Construction Materials and Methods
- CON 330 - Construction Safety
- CON 350 - Project Delivery, Law and Contracts
- CON 470 - Mechanical Electrical and Piping Construction

Data Sciences Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirements

- EGR 121 - Introduction to Computer Programming in C++ **OR**
- CIS 268 - Computer Programming Languages

- EGR 222 - Software Engineering

Upper Division Requirements

- CIS 465 - Essentials of Geographic Information Systems

- CSC 413 - Information Security and Computer Forensics **OR**
- DSC 423 - Enterprise Data Communications **OR**
- DSC 450 - Data Mining

- EGR 324 - Engineering Economics
- EGR 325 - Database Systems

Electrical Engineering Minor

Traditional Minor Program Requirements (31 units)

Lower Division Requirements

- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- EGR 331 - Signals and Systems
- EGR 333 - Electronics I
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 431 - Control Systems

Upper Division Elective Requirement

Complete three (3) additional upper division units from the following:

- EGR 334 - Electronics II
- EGR 432 - Applied Electromagnetics
- EGR 433 - Power Electronics

Environmental Engineering Minor

Traditional Minor Program Requirements (23 units)

Lower Division Requirements

- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- EGR 256 - Principles of Environmental Engineering and Science
- MAT 245 - Analytical Geometry and Calculus I

Upper Division Requirements

- EGR 342 - Fluid Mechanics **OR**
- EGR 456 - Sustainable Civil Engineering
- EGR 356 - Hydrology
- EGR 453 - Environmental Engineering I
- EGR 454 - Environmental Engineering II

Industrial and Systems Engineering Minor

Traditional Minor Program Requirements (28 units)

Lower Division Requirements

- EGR 121 - Introduction to Computer Programming in C++
- EGR 281 - Introduction to Industrial and Systems Engineering
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- EGR 305 - Engineering Statistics
- EGR 381 - Operations Research I: Deterministic Methods
- EGR 382 - Applied Differential Equations and Linear Algebra
- EGR 481 - Systems Simulation

Upper Division Elective Requirement

Complete three (3) upper division units from the following:

- CON 460 - Construction Planning and Scheduling
- EGR 324 - Engineering Economics
- EGR 325 - Database Systems
- EGR 344 - Materials and Manufacturing Processes
- EGR 361 - Introduction to Biomechanics
- EGR 383 - Quality Control
- EGR 384 - Human Factors and Ergonomics

- EGR 386 - Operations Research II: Probabilistic Methods
- EGR 427 - Software Project Management
- EGR 431 - Control Systems
- EGR 451 - Project and Construction Management
- EGR 456 - Sustainable Civil Engineering
- EGR 474 - Chemical Process Control
- EGR 475 - Process Safety
- EGR 482 - Supply Chain and Logistics Management
- EGR 483 - Production Systems

Mechanical Engineering Minor

Traditional Minor Program Requirements (48 units)

Lower Division Requirements

- EGR 241 - Statics
- EGR 242 - Strength of Materials
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- PHY 201 - Physics for Engineers I with Lab
- PHY 203 - Physics for Engineers II with Lab

Upper Division Requirements

- EGR 341 - Thermodynamics
- EGR 342 - Fluid Mechanics
- EGR 343 - Dynamics
- EGR 441 - Heat Transfer
- EGR 442 - Computer-Aided Engineering Design and Visualization
- MAT 343 - Multivariable Calculus

Upper Division Elective Requirement

Complete three (3) upper division units from the following:

- EGR 344 - Materials and Manufacturing Processes
- EGR 346 - Machine Design
- EGR 443 - Mechanical Vibrations
- EGR 444 - Mechanical Engineering Laboratory
- EGR 445 - Thermal Design of Heat Exchangers

Mechatronics Minor

Traditional Minor Program Requirements (38 units)

Lower Division Requirements

- EGR 231 - Circuit Theory I
- EGR 232 - Circuit Theory II and Design
- EGR 234 - Digital Logic Design
- MAT 245 - Analytical Geometry and Calculus I
- MAT 255 - Analytical Geometry and Calculus II

Upper Division Requirements

- EGR 321 - Computer Organization
- EGR 322 - Microcontroller System Design
- EGR 331 - Signals and Systems
- EGR 335 - Data Acquisition, Design and Visualization
- EGR 431 - Control Systems
- EGR 434 - Robot Modeling and Control

Software Engineering Minor

Traditional Minor Program Requirements (19 units)

Prerequisite

- CIS 268 - Computer Programming Languages **OR**
- EGR 121 - Introduction to Computer Programming in C++

Lower Division Requirements

- EGR 222 - Software Engineering
- EGR 227 - Data Structures and Analysis

Upper Division Requirements

- EGR 325 - Database Systems
- EGR 327 - Software Construction
- EGR 491 - Research Project (1 unit)

Upper Division Elective Requirement

Complete three (3) upper division units in software engineering from the following:

- EGR 423 - Mobile Applications Development
- EGR 424 - Web Application Development
- EGR 425 - Real Time and Embedded Development

Additional Upper Division Elective Requirement

Complete three (3) additional upper division units in software engineering from the following:

- EGR 323 - Software Requirements and Analysis
- EGR 324 - Engineering Economics
- EGR 326 - Software Design and Architecture
- EGR 329 - Computer Architecture
- EGR 423 - Mobile Applications Development
- EGR 424 - Web Application Development
- EGR 425 - Real Time and Embedded Development
- EGR 427 - Software Project Management

College of Health Science

Dr. David Pearson
Dean

Ms. Brittany Davies
Director of Academic Operations
Phone 951.343.4619
healthscience@calbaptist.edu

Faculty Information

Departments

Allied Health Professions	Nicole MacDonald, Dr.P.H.
Communication Sciences and Disorders	Bryan Ness, Ph.D.
Kinesiology	Sean Sullivan, Ph.D.
Physician Assistant Studies	Heather Ontiveros, D.H.Sc.
Public Health Sciences	Marshare Penny, Dr.P.H.

The College of Health Science exists to transform lives through the Health Professions and consists of the following four departments: Allied Health Professions, Kinesiology, Physician Assistant Studies, and Public Health Sciences.

The College is defined by its outstanding teaching and learning mission; specialized emphasis on the allied health professions; and efforts to serve as a premier institution for the intellectual and spiritual development of students, faculty, and staff. The College of Health Science will clearly and regularly support the concepts of being Biblically rooted, academically prepared, equipped to serve, and globally minded.

We take pride in our faculty commitment to teaching and learning as we prepare individuals for futures in a wide variety of professions. Furthermore, we prepare future leaders who will serve as health care, fitness, and leadership professionals.

The faculty and staff of the California Baptist University College of Health Science (CHS) commit to supporting CHS students, and one another, in the attainment of educational, spiritual, and vocational goals consistent with a Biblical worldview. Faculty and staff will steadfastly model the Christ like behaviors of interactive teaching, servant leadership, and inspired scholarship aimed at improving the human condition. CHS faculty, staff, and students will be encouraged and equipped to make a significant and positive impact locally and around the world.

Department of Allied Health Professions

Dr. Nicole MacDonald
Chair

Ms. Stephanie Moreno
Department Secretary
Phone 951.552.8531
smoreno@calbaptist.edu

Faculty Information

The Department of Allied Health Professions is a multidisciplinary department dedicated to preparing students to contribute to a global society and a diverse workforce through academic and clinical training of allied health professionals. This is accomplished by providing allied health professions students with the knowledge and skills basic to the practice of their disciplines from a Christian worldview, instilling them with the fundamental attitudes of professionalism, and enabling them to function in inter-professional collaboration that emphasizes whole person care.

Physical Therapist Assistant, AS

Admission Requirements

Associate of Science in Physical Therapist Assistant Admission Requirements

Students must meet the following requirements prior to admission to the program:

1. High School graduation or equivalency (official transcripts required)
2. Acceptance into California Baptist University
3. Minimum cumulative high school grade point average (GPA) of 3.0 or college/university grade point average (GPA) of 2.5 (official transcripts from all colleges and universities attended required)
4. A Comprehensive essay of at least 500 words that includes the following elements:
    - Why you want to become a Physical Therapist Assistant
    - Background and/or experiences related to the field
    - Short- and long-term professional goals, and
    - Reasons for choosing California Baptist University
5. Verification of at least 60 clinical hours in a physical therapy environment
6. Interview with Physical Therapist Assistant faculty and clinicians, if invited
7. Two letters of recommendation. One must be from a Physical Therapist or Physical Therapist Assistant clinician and one must be from an instructor, teacher, or professor
8. Once admitted into the program, the student must pass a criminal background check and be able to perform Technical Standards of the profession.

Traditional Associate Program Requirements (56 units)

The Associate of Science in Physical Therapist Assistant degree prepares the student for employment as a physical therapist assistant. Physical therapist assistants work under the supervision of licensed physical therapists in a wide variety of health care settings.

General Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II

- BIO 163L - Anatomy and Physiology II Lab
- PSY 213 - General Psychology

Technical Requirements

- PTH 100 - Introduction to Physical Therapy
- PTH 110 - Medical Terminology for the Physical Therapist Assistant
- PTH 130 - Functional Kinesiology and Therapeutic Exercise
- PTH 140 - Basic Clinical Skills
- PTH 150 - Preparation for Clinical Practice
- PTH 170 - Physical Agents
- PTH 200 - Special Topics in Physical Therapy
- PTH 230 - Pathophysiology for the Physical Therapist Assistant
- PTH 240 - Advanced Clinical Skills
- PTH 260 - Orthopedics
- PTH 270 - Neurology
- PTH 280 - Professional Integration

Clinical Requirements

- PTH 255 - Clinical I
- PTH 265 - Clinical II
- PTH 275 - Clinical III

Radiologic Sciences, BS

Admission Requirements

Students must meet the following requirements prior to admission to the program:

1. High School graduation or equivalency (official transcripts required)
2. Acceptance into California Baptist University
3. A minimum 2.5 Grade Point Average (official transcripts from all colleges and universities attended required)
4. A Comprehensive essay of at least 500 words that includes the following elements:
    - Why you want to become a Radiologic Technologist
    - Background and/or experiences related to the field
    - Short- and long-term professional goals, and
    - Reasons for choosing California Baptist University
5. Verification of at least 8 hours in a radiology environment
6. Interview with Radiologic Science faculty and clinicians, if invited
7. Three letters of recommendation. One must be from a Radiology professional (Technologist or Radiologist) and one must be from an instructor, teacher, or professor
8. Once admitted into the program, the student must pass a criminal background check and be able to perform Technical Standards of the profession
9. Prerequisites:
    - Introduction to Statistics
    - Anatomy and Physiology I
    - Anatomy and Physiology II
    - First Aid and Safety (OR documented CPR and AED certification)
    - Medical Terminology

- General Physics with Lab
- General Chemistry
- General Biology with Lab

Pre-Radiologic Sciences Studies

The following pre-radiologic science requisites are offered at California Baptist University:
*Requirement may be satisfied with documentation of Adult, Child, and Infant CPR with AED certification.

- BIO 146 - General Biology I with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 173 - Medical Terminology
- CHE 102 - Fundamentals of Chemistry
- KIN 212 - First Aid and Safety *
- MAT 145 - Mathematical Methods in the Natural Sciences **OR**
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- STA 144 - Introduction to Statistics

Traditional Major Program Requirements (64 units)

A Bachelor of Science in Radiologic Science will prepare students for the profession of Radiologic Science and allow them to sit for their state, national, and Fluoroscopy boards.

Students must submit an application to the Radiologic Science Program Director and be accepted to enroll in the Bachelor of Science in Radiologic Science program.

Lower Division Radiologic Science Requirements

- RAD 210 - Introduction to Radiologic Science Practice
- RAD 220 - Patient Care in Radiologic Sciences

Upper Division Radiologic Sciences Requirements

- HCA 330 - Health Information Systems
- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 480 - Research Methods
- RAD 320 - Principles of Imaging
- RAD 325 - Radiographic Procedures with Lab
- RAD 335 - Radiologic Procedures II with Lab
- RAD 345 - Radiologic Procedures III with Lab
- RAD 350 - Clinical Practice I
- RAD 355 - Clinical Practice II
- RAD 410 - Image Analysis
- RAD 415 - Introduction to Computed Tomography

- RAD 420 - Radiographic Medicine with Lab
- RAD 440 - Radiologic Biology and Physics
- RAD 450 - Clinical Practice III
- RAD 455 - Clinical Practice IV
- RAD 460 - Clinical Practice V
- RAD 495 - Radiologic Sciences Capstone
- RAD 496 - Comprehensive Review

Department of Communication Sciences and Disorders

Dr. Bryan Ness
Chair

Ms. Stephanie Moreno
Department Secretary
Phone 951.552.8531
smoreno@calbaptist.edu

Faculty Information

Communication Sciences and Disorders, BS

Traditional Major Program Requirements (71 units)

The Communication Sciences and Disorders Major is designed for students to acquire skills and competencies in the areas of speech, hearing, language, and swallowing. This program in Communication Sciences and Disorders is designed to prepare students for graduate work in Speech Language Pathology or Audiology, as well as for entering into related professions.

Satisfactory completion of CDS 495 - Speech Language Pathology Assistant Clinical Practicum is required for registration as a Speech Language Pathology Assistant with the Speech-Language Pathology and Audiology and Hearing Aid Dispensers Board of the State of California Department of Consumer Affairs.

Lower Division Requirements

- ANT 225 - Cultural Anthropology *OR*
- SOC 213 - Introduction to Sociology

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- CDS 101 - Introduction to Communication Disorders
- CDS 230 - Phonetics
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CDS 250 - Typical and Atypical Language Development
- CHE 102 - Fundamentals of Chemistry
- HSC 100 - Introduction to the Health Science Professions
- PSY 120 - Lifespan Development for the Health Professions
- STA 144 - Introduction to Statistics

Lower Division Electives

Complete six (6) units from the following:

- ASL 115 - American Sign Language I
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- PSY 213 - General Psychology

Upper Division Requirements

- CDS 310 - Introduction to Audiology
- CDS 320 - Aural Rehabilitation
- CDS 330 - Speech Hearing Sciences
- CDS 340 - Clinical Methods and Procedures
- CDS 405 - Fluency Disorders
- CDS 410 - Language Disorders in Children
- CDS 420 - Articulation and Phonological Disorders
- CDS 430 - Neurogenic and Neurological Disorders
- CDS 440 - Voice and Craniofacial Disorders
- HSC 480 - Research Methods

Upper Division Elective Requirements

Complete six (6) units from the following:

*Required for registration as a Speech Language Pathology Assistant with the Speech-Language Pathology and Audiology and Hearing Aid Dispensers Board of the State of California Department of Consumer Affairs.

- CDS 400 - Special Topics in Communication Disorders
- CDS 495 - Speech Language Pathology Assistant Clinical Practicum *
- ECH 320 - Cognitive Development in Infancy and Early Childhood
- ECH 375 - Early Intervention: Early Childhood Special Education
- ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities
- EDU 341 - The Exceptional Child

Department of Kinesiology

Dr. Sean Sullivan
Chair

Phone 951.552.8531
healthscience@calbaptist.edu

Faculty Information

Kinesiology focuses on the study of human movement and prepares students for career opportunities in a variety of exercise, physical activity, rehabilitation, sport, and wellness settings. CBU's Kinesiology major will provide students with knowledge, skills and competencies to work in professional fields such as athletic training, exercise, fitness, teaching, and sport management. Students receive a broad understanding of the basic and applied sciences as well as a marketable set of skills designed to enhance the health, wellness, and physical performance of the individuals they serve. This major prepares students for relevant professional certifications through the American College of Sports Medicine (ACSM) the National Strength and Conditioning Association (NSCA), and other professional organizations, as well as for further graduate study in related disciplines.

Exercise Science, BS

Traditional Major Program Requirements (70-72 units)

The Exercise Science program is designed to prepare students for careers in exercise and rehabilitation, as well as graduate work in physical therapy and other Allied Health areas. The curriculum also prepares students for relevant professional certifications from the American College of Sports Medicine and the National Strength and Conditioning Association.

Lower Division Requirements

- KIN 101 - Orientation to the Discipline
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy
- PSY 213 - General Psychology

Lower Division Science and Mathematics Requirements

- BIO 146 - General Biology I with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- STA 144 - Introduction to Statistics

Lower Division Science and Mathematics Elective Requirements

Complete at least fifteen (15) units from the following:

- CHE 125 - General Chemistry II

- CHE 125L - General Chemistry II Lab
- KIN 304 - Introduction to Athletic Training
- KIN 312 - Emergencies in Sports Medicine
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 490 - Principles of Conditioning Athletes
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Upper Division Requirements

- BIO 305 - Microbiology with Lab **OR**
- BIO upper division elective (3+ units)
- BIO 313 - Genetics **OR**
- KIN 393 - Applied Exercise Physiology
- KIN 300 - Nutrition Science

- KIN 312 - Emergencies in Sports Medicine *OR*
- KIN 332 - Lifelong Motor Development

- KIN 383 - Exercise Physiology
- KIN 433 - Sports and Activities Practicum
- KIN 473 - Research Methods and Evaluation in Kinesiology
- KIN 480 - Fitness Assessments and Exercise Prescription

Pre-Athletic Training Recommendations

Pre-Athletic Training students should take the following:

- KIN 304 - Introduction to Athletic Training
- KIN 312 - Emergencies in Sports Medicine
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 490 - Principles of Conditioning Athletes
- PHY 214 - Physics I
- PHY 214L - Physics I Lab

Pre-Physical Therapy Recommendations

Pre-Physical Therapy students should take the following:

- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- MAT 145 - Mathematical Methods in the Natural Sciences
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Kinesiology, BA

Traditional Major Program Requirements (54-56 units)

The Kinesiology major prepares students for careers in sport, teaching, coaching, fitness, health science related fields and graduate studies. The concentration in Physical Activity and Wellness is designed for those interested in practicing and promoting general health and wellness as it relates to physical activity and exercise. The concentration in Physical Education is designed for those interested in teaching physical education. The concentration in Sport Performance is designed for those interested in improving athletic and sport performance of physically active individuals and groups.

Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 101 - Orientation to the Discipline

- KIN 108 - Swimming **OR**
- KIN 109 - Lifesaving
- KIN 114 - Walking and Running for Fitness
- KIN 115 - Weight Training
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

Upper Division Requirements

- KIN 302 - Contemporary Health Issues
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 383 - Exercise Physiology
- KIN 454 - Behavioral Aspects of Sport
- KIN 473 - Research Methods and Evaluation in Kinesiology

Concentration Courses (16-18 units)

Students must complete all requirements in one of the following concentrations: Physical Activity and Wellness; Physical Education; Sport Performance

Physical Activity and Wellness (17 units)

- HSC 320 - Public Health Nutrition and Physical Activity
- HSC 410 - Health Behavior Change
- KIN 106 - 126 (2 units)*

- KIN 390 - Sport Performance Techniques *OR*
- KIN 490 - Principles of Conditioning Athletes

- KIN 433 - Sports and Activities Practicum
- KIN 480 - Fitness Assessments and Exercise Prescription

*Must complete two (2) different activity courses, not including varsity sport participation, KIN 108, 109, 114, or 115.

Physical Education (18 units)

- KIN 301 - Sport Coaching and Officiating
- KIN 310 - Fundamentals of Movement and Physical Activity
- KIN 395 - Physical Activity for Early Development
- KIN 405 - Cooperative Movements in Physical Activity and Team Sport
- KIN 415 - Teaching Lifelong Physical Activity
- KIN 423 - Organizations and Administration of Physical Education

Sport Performance (16 units)

- KIN 106 - 126 (1 unit)*
- KIN 300 - Nutrition Science
- KIN 390 - Sport Performance Techniques
- KIN 433 - Sports and Activities Practicum
- KIN 490 - Principles of Conditioning Athletes
- KIN 495 - Functional Movement for Sport Performance
  *Must complete one (1) additional activity course, not including varsity sport participation, KIN 108, 109, 114, or 115.

Recommended Courses for students interested in further study in Physical Therapy

Students should check with specific physical therapy schools for further course requirements.

- BIO 153 - Anatomy and Physiology I
- BIO 163 - Anatomy and Physiology II
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- PHY 214 - Physics I
- PHY 224 - Physics II
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

Sport Management, BS

Traditional Degree Program Requirements (50 units)

The Sport Management degree prepares students for administrative careers in the fields of athletics, fitness, recreation, sport, and tourism. Course work is primarily in the area of kinesiology, but also includes relevant industry-related content.

Lower Division Requirements

- BIO 153 - Anatomy and Physiology I

- BIO 153L - Anatomy and Physiology I Lab
- BUS 218 - Macroeconomics
- JRN 150 - Media and Society
- KIN 101 - Orientation to the Discipline

- KIN 108 - Swimming *OR*
- KIN 109 - Lifesaving

- KIN 114 - Walking and Running for Fitness
- KIN 115 - Weight Training
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

Upper Division Requirements

- BUS 343 - Human Resource Management
- COM 425 - Organizational Communication
- KIN 305 - Applied Sport Management
- KIN 315 - Sport Governance
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 423 - Organizations and Administration of Physical Education
- KIN 433 - Sports and Activities Practicum
- KIN 454 - Behavioral Aspects of Sport
- PSY 388 - Industrial and Organizational Psychology

Coaching Minor

Traditional Minor Program Requirements (26 units)

The Coaching minor is designed for students pursuing careers in primary or secondary education. This minor, coupled with an appropriate multiple or single subject matter specialization can provide students with opportunities for involvement in all types of organized athletics.

* Not available for Kinesiology majors.

Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy

Upper Division Requirements

- KIN 301 - Sport Coaching and Officiating
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries

- KIN 423 - Organizations and Administration of Physical Education
- KIN 433 - Sports and Activities Practicum

Kinesiology Minor

Traditional Minor Program Requirements (25 units)

The Kinesiology minor is designed for students pursuing careers in primary or secondary education. This minor, coupled with an appropriate multiple or single subject matter specialization can provide students with opportunities for involvement in teaching physical education and/or coaching athletic teams.

Lower Division Requirements

- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

Upper Division Requirements

- KIN 302 - Contemporary Health Issues
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 363 - Movement Experiences for Children

- KIN 404 - Movement Experiences for Middle School Students **OR**
- KIN 414 - Methods of Teaching Sport Activities

Sport Management Minor

Traditional Minor Program Requirements (25 units)

The Sport Management minor is offered for those students who wish to work in an administrative capacity within fields such as athletics, recreation, fitness, tourism, and more. Students will gain some knowledge of the Kinesiology discipline as well as basic fundamentals of business management. This is a strong undergraduate preparation for the California Baptist University masters programs in Business or in Kinesiology with an emphasis in Sport Management.

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- KIN 212 - First Aid and Safety

Upper Division Requirements

- KIN 303 - Foundations of Kinesiology
- KIN 305 - Applied Sport Management
- KIN 315 - Sport Governance

- KIN 423 - Organizations and Administration of Physical Education
- KIN 454 - Behavioral Aspects of Sport

Department of Physician Assistant Studies

Dr. Heather Ontiveros
Chair

Ms. Daphne Paramo
Department Secretary
Phone 951.552.8515
FAX 951.552.8210
paprogram@calbaptist.edu

Faculty Information

The Master of Science in Physician Assistant Studies (MSPAS) program prepares medical professionals to provide medical and patient care responsibilities, in collaboration with physicians and other health care team members within the health care system. In support of the University's mission, the program will produce students that are academically prepared, biblically rooted, globally minded and equipped to serve. Students receive training in all aspect of medical education, including classroom, laboratory and clerkship experiences. Upon completion of the program, students are prepared to take the Physician Assistant National Certification Exam (PANCE) given by the National Commission on Certification of Physician Assistants (NCCPA), and apply for state licensure to practice as a certified Physician Assistant (PA-C).

Department of Public Health Sciences

Dr. Marshare Penny
Chair

Ms. Katreena Gavrila
Department Secretary
Phone 951.552.8535
kgavrila@calbaptist.edu

Faculty Information

The Department of Public Health Sciences is dedicated to excellence in teaching, research, and service in the areas of Health Science, Public Health, Nutrition and Food Sciences, and Health Care Administration. Our graduates will find rewarding careers serving others in the community through education, public health, healthcare administration, and a number of other health related fields. Additionally, graduates of the department are well-prepared to enter graduate school and pursue master or doctoral programs in public health, healthcare administration, nutrition sciences, and the medical professions including medicine, dentistry, and physician assistant studies. Our academic programs at both the undergraduate and graduate level prepare students to be research based, practice ready, and Christ focused.

Health Science, AS

Traditional Associate Program Requirements (32-33 units)

Lower Division Requirements

- HSC 100 - Introduction to the Health Science Professions
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

Chemistry Requirements

Complete a two-semester sequence from the following:

- CHE 102 - Fundamentals of Chemistry
- CHE 112 - Organic and Biochemistry for Health Sciences
- CHE 112L - Organic and Biochemistry for Health Sciences Lab
  OR
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab

Elective Requirements

Complete twelve (12) units from the following*:

- BIO 146 - General Biology I with Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab

- BIO 173 - Medical Terminology
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- CDS 101 - Introduction to Communication Disorders
- CDS 230 - Phonetics
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CDS 250 - Typical and Atypical Language Development
- HSC 101 - Introduction to Public Health
- NFS 101 - Introduction to Nutrition and Food Sciences

Note

* Students should select required electives based on prerequisites for their planned field of study and career which may vary by institution and program. Recommended courses by field of study are as follows:

General Health Science

- BIO 146 - General Biology I with Lab
- BIO 173 - Medical Terminology
- HSC 101 - Introduction to Public Health

Communication Disorders

- CDS 101 - Introduction to Communication Disorders
- CDS 230 - Phonetics
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CDS 250 - Typical and Atypical Language Development

Dental Hygiene

- BIO 146 - General Biology I with Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab

Nutrition and Food Science

- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- NFS 101 - Introduction to Nutrition and Food Sciences

Health Science, BS

Traditional Major Program Requirements (72-93 units)

The Health Science Major prepares students for graduate school in a variety of medical professional studies and disciplines. In addition to the requisite science core, the Health Science major incorporates a comprehensive view of the aggregate US healthcare system to prepare future healthcare system practitioners with an understanding of how the current healthcare system works, as well as how health policy is developed and implemented.

Lower Division Requirements (31 units)

- BIO 146 - General Biology I with Lab
- BIO 173 - Medical Terminology
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- CHE 125 - General Chemistry II
- CHE 125L - General Chemistry II Lab
- HSC 100 - Introduction to the Health Science Professions
- HSC 101 - Introduction to Public Health
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- MAT 145 - Mathematical Methods in the Natural Sciences
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

Upper Division Requirements (23 units)

- BIO 305 - Microbiology with Lab
- BIO 313 - Genetics **OR**
- BIO 330 - Cell and Molecular Biology with Lab
- HSC 300 - Health Communication
- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 480 - Research Methods
- HSC 495 - Practicum **OR**
- HSC 499 - Health Science Capstone

Concentration Courses (18-39 units)

Students must complete all requirements in one of the following concentrations: Pre-Dental; Pre-Medicine; Pre-Pharmacy; Pre-Physician Assistant; Public Health and Population Medicine

Pre-Dental (35 units)

- BIO 148 - General Biology II with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- CDS 240 - Speech and Hearing Anatomy and Physiology
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab

- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Pre-Medicine (28 units)

- BIO 148 - General Biology II with Lab
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Pre-Pharmacy (39 units)

- BIO 148 - General Biology II with Lab
- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BUS 217 - Microeconomics **OR**
- BUS 218 - Macroeconomics
- CHE 351 - Organic Chemistry I with Lab
- CHE 352 - Organic Chemistry II with Lab
- CHE 443 - Biochemistry I with Lab
- MAT 245 - Analytical Geometry and Calculus I
- PHY 214 - Physics I
- PHY 214L - Physics I Lab
- PHY 224 - Physics II
- PHY 224L - Physics II Lab

Pre-Physician Assistant (23 units)

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- HSC 410 - Health Behavior Change
- HSC 420 - Health Care Policy
- NFS 310 - Community and Public Health Nutrition
- PSY 346 - Abnormal Psychology
- SPA 110 - Spanish for Health Care Professionals I

Public Health and Population Medicine (18 units)

- HSC 312 - Principles of Environmental and Occupational Health
- HSC 410 - Health Behavior Change
- HSC 412 - Health and Wellness Coaching
- HSC 420 - Health Care Policy
- NFS 310 - Community and Public Health Nutrition
- SPA 110 - Spanish for Health Care Professionals I

Healthcare Administration, BS

Traditional Major Program Requirements (48 units)

Through the integration of healthcare specific and business coursework, taught through a Christian worldview, the Bachelor of Science in Healthcare Administration, with a minor in Business Administration, prepares students for entry level administrative roles in all facets of the healthcare industry. Graduates are also prepared for further education in Master level programs in Business Administration, Health/Hospital Administration, and Public Health.

Lower Division Requirements

- BIO 173 - Medical Terminology
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- HSC 100 - Introduction to the Health Science Professions
- HSC 104 - Survey of U.S. Health Care Delivery
- STA 144 - Introduction to Statistics

Upper Division Requirements

- BUS 343 - Human Resource Management
- HCA 330 - Health Information Systems
- HCA 360 - Finance and Reimbursement in Healthcare
- HCA 410 - Quality Improvement in Healthcare
- HCA 450 - Healthcare Legal Issues and Ethics
- HCA 490 - Current Issues in Healthcare Administration

- HCA 499 - Healthcare Administration Capstone **OR**
- HSC 495 - Practicum

- HSC 300 - Health Communication
- HSC 305 - Epidemiology
- HSC 420 - Health Care Policy
- PAD 451 - Executive Leadership and Management

Minor Requirement

Students must declare and complete all requirements for the Business Administration Minor.

Nutrition and Food Sciences, BS

Traditional Major Program Requirements (84 units)

The Nutrition and Food Sciences major prepares students for careers in human nutrition, food science, food technology, and food management and processing. This program will also provide students with the necessary background to pursue advanced degrees in dietetics, public health, or food science and technology.

Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- CHE 112 - Organic and Biochemistry for Health Sciences
- CHE 112L - Organic and Biochemistry for Health Sciences Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- HSC 100 - Introduction to the Health Science Professions
- NFS 101 - Introduction to Nutrition and Food Sciences
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

Upper Division Requirements

- HSC 406 - Food Safety and Consumer Protection
- HSC 410 - Health Behavior Change
- HSC 480 - Research Methods
- HSC 495 - Practicum **OR**
- HSC 499 - Health Science Capstone
- NFS 300 - Lifecycle Nutrition
- NFS 310 - Community and Public Health Nutrition
- NFS 315 - Experimental Foods
- NFS 320 - Nutritional Biochemistry
- NFS 335 - Food Chemistry
- NFS 345 - Food Processing and Engineering
- NFS 355 - Food Sensory Analysis
- NFS 400 - Special Topics in Nutrition and Food Sciences
- NFS 420 - Quantity Food Management
- NFS 445 - Food Microbiology
- NFS 455 - Medical Nutrition Therapy I
- NFS 460 - Human Nutrition Assessment Lecture
- NFS 465 - Medical Nutrition Therapy II
- NFS 475 - Advanced Human Nutrition

Public Health, BS

Traditional Major Program Requirements (56-76 units)

The Public Health major prepares students to plan, implement, and evaluate health education and promotion programs in schools, communities, and internationally. The program provides a core foundation in epidemiology, environmental

health, health behavior change, disease prevention, health education methods, research methods, ethics, management, and leadership. This major prepares students for relevant professional certifications through the National Commission on Health Education Credentialing (CHES) and the National Board of Public Health (CPH), and the Registered Environmental Health Specialist (REHS) as well as for further graduate study in public health, health management, social sciences, medicine, or other allied health professions.

Public Health majors that are interested in global health issues are encouraged to enroll in ALH 301 - Global Health Engagement Seminar and ALH 401 - Global Health Engagement Practicum, and participate in the Global Health Engagement for their HSC 495 - Practicum requirement.

Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- HSC 100 - Introduction to the Health Science Professions
- HSC 101 - Introduction to Public Health
- HSC 104 - Survey of U.S. Health Care Delivery
- INH 101 - Introduction to International Health
- PSY 213 - General Psychology
- STA 144 - Introduction to Statistics

Upper Division Requirements

- HSC 305 - Epidemiology
- HSC 312 - Principles of Environmental and Occupational Health
- HSC 413 - Program Planning and Implementation
- HSC 418 - Program Evaluation
- HSC 420 - Health Care Policy
- HSC 480 - Research Methods
- INH 300 - Outbreak and Emergency Preparation and Response

Concentration Courses (15-35 units)

Students must complete all requirements in one of the following concentrations: Environmental Health; Health Education and Promotion

Environmental Health (35 units)

- BIO 146 - General Biology I with Lab
- BIO 148 - General Biology II with Lab
- BIO 305 - Microbiology with Lab
- CHE 115 - General Chemistry I
- CHE 115L - General Chemistry I Lab
- HSC 406 - Food Safety and Consumer Protection
- HSC 415 - Water and Air Quality Inspection and Management
- HSC 485 - Environmental Sampling and Analysis
- MAT 145 - Mathematical Methods in the Natural Sciences
- PAD 493 - Principles of Public Administration
- PHY 214 - Physics I
- PHY 214L - Physics I Lab

Health Education and Promotion (15 units)

- HSC 300 - Health Communication
- HSC 421 - Methods in Health Education
- HSC 410 - Health Behavior Change

- HSC 495 - Practicum **OR**
- HSC 499 - Health Science Capstone

- NFS 310 - Community and Public Health Nutrition

Health Science Minor

Traditional Minor Program Requirements (22 units)

Lower Division Requirements

- BIO 173 - Medical Terminology
- HSC 100 - Introduction to the Health Science Professions
- HSC 104 - Survey of U.S. Health Care Delivery

Upper Division Requirements

- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 316 - Public Health Promotion, Disease Prevention and Intervention
- HSC 420 - Health Care Policy
- KIN 302 - Contemporary Health Issues

Nutrition Minor

Traditional Minor Program Requirements (21 units)

The minor in Nutrition is available to student pursuing undergraduate degrees at California Baptist University. Students who may be interested in completing the minor include those pursuing degrees in Public Health, Health Science, Nursing, Exercise Science, and Kinesiology. The minor is intended to increase knowledge and understanding of basic nutrition, food science, and nutritional-related issues.

Lower Division Requirement

- NFS 101 - Introduction to Nutrition and Food Sciences

Upper Division Elective Requirements

Complete eighteen (18) units from the following:

- HSC 410 - Health Behavior Change
- NFS 300 - Lifecycle Nutrition
- NFS 310 - Community and Public Health Nutrition

- NFS 320 - Nutritional Biochemistry
- NFS 400 - Special Topics in Nutrition and Food Sciences
- NFS 455 - Medical Nutrition Therapy I
- NFS 460 - Human Nutrition Assessment Lecture

College of Nursing

Dr. Karen Bradley
Dean

Dr. Juliann Perdue
Associate Dean

Dr. Deanna Jung
Chair, Undergraduate Nursing Department

Dr. Lisa Bursch
Chair, Graduate Nursing Department

Dr. Dayna Herrera
Chair, Learning Resource Center and Inter-Professional Education

Ms. Jeannette Russell
Administrative Manager
Phone 951.343.4702
FAX 951.552.8402
jrussell@calbaptist.edu

Faculty Information

The mission of the California Baptist University College of Nursing is to educate competent, responsible, caring, and professional nurses prepared from a biblical worldview to serve locally, nationally and globally; revering the human dignity of all persons created in the image of God.

The purpose of the baccalaureate program leading to a Bachelor of Science in Nursing is to provide a curriculum that will broaden the theoretical knowledge base of the learner in preparation for professional nursing practice and future graduate nursing study.

Traditional Bachelor of Science in Nursing students complete Board of Registered Nursing (BRN) approved pre-licensure courses designed to prepare the students to take the National Council Licensure Examination (NCLEX-RN), and preparing them for a seamless transition into graduate nursing. The 14 week semesters are comprised of courses scheduled in a full-time delivery mode for the theoretical and practicum content required by the BRN. Students are advised that the program represents a very intensive, full-time commitment. The BSN program is accredited by the credentialing body of the American Association of Colleges of Nursing (AACN).

The RN-BSN program is designed for working, licensed RNs to advance their educational level. The program is offered in a hybrid format.

The AACN Essentials of Baccalaureate Education in Nursing guide the BSN coursework in order to prepare graduates for the role of the baccalaureate generalist nurse including: provider of care, designer/manager/coordinator of care, and member of the nursing profession. The BSN curriculum includes both direct and indirect care for individuals, families, groups, communities, and populations.

Nursing, BSN

Admission Requirements

Bachelor of Science in Nursing Admission Requirements

First-time freshmen and transfer students interested in pursuing a Bachelor of Science in Nursing (BSN) are admitted to the University as pre-nursing students, and must complete the required prerequisite courses to be considered for the

nursing major. Students may be selected for admission to the nursing major each fall and spring semester. Selection is made through a holistic application review.

A 30-unit LVN option is available on a space and course availability basis. California Baptist University College of Nursing has a process in place for a student to obtain credit for previous education or other acquired knowledge in the field of nursing, including military education and experience, through equivalence, challenge examinations, or other methods of evaluation.

1. Acceptance to California Baptist University. Admission standards for Undergraduate Studies at California Baptist University can be found in the Admissions section of the University Catalog
2. A minimum 3.0 cumulative Grade Point Average and 2.8 science Grade Point Average
3. Prerequisites. All prerequisites must be completed with a grade of C or higher
    - Composition
    - Intermediate Composition
    - Intermediate Algebra or Introductory Statistics
    - Oral Communication
    - Lifespan Development
    - Fundamentals of Chemistry
    - Organic and Biochemistry for Health Sciences with Lab
    - Human Anatomy/Physiology with Lab (2 semesters)
    - Human Microbiology with Lab
4. Nursing Program Online Application, including transcripts, two letters of recommendation, Conduct Clearance, and Release and Waiver form

Post-Admissions Requirements

1. Proof of Identification
2. Clearances:
    - Background Check Clearance
    - Health Clearance
    - Drug Testing
    - CPR Certification
    - Proof of Health Insurance
    - Reliable Form of Transportation with Proof of Motor Vehicle Insurance

Pre-Nursing Studies

The following pre-nursing requisites are offered at California Baptist University. It is strongly recommended that students admitted as provisional or placed on academic probation take no more than one science course during the semester.

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- BIO 163 - Anatomy and Physiology II
- BIO 163L - Anatomy and Physiology II Lab
- BIO 205 - Human Microbiology
- BIO 205L - Human Microbiology Lab
- CHE 102 - Fundamentals of Chemistry
- CHE 112 - Organic and Biochemistry for Health Sciences
- CHE 112L - Organic and Biochemistry for Health Sciences Lab
- COM 113 - Oral Communication
- ENG 113 - Composition
- ENG 123 - Intermediate Composition

- MAT 115 - Intermediate Algebra **OR**
- STA 144 - Introduction to Statistics

- PSY 120 - Lifespan Development for the Health Professions

Traditional Degree Program Requirements (124 units)

A Bachelor of Science in Nursing will provide a curriculum that will broaden the theoretical knowledge base of the learner in preparation for an entry- level professional nursing practice and possibility of graduate nursing study.

Students must submit an application to the College of Nursing and be accepted to enroll in the Bachelor of Science in Nursing program. Coursework for credit toward the degree must be passed with a minimum grade of C or higher.

General Education Courses

The general education requirements will follow the curriculum set forth for other University degree programs. Some general education requirements will be met through specific Nursing major requirements.

Lower Division Major Requirements

- ANT 225 - Cultural Anthropology **OR**
- ANT 315 - Health and Holistic Healing

- NUR 201 - Theoretical Foundations in Nursing
- NUR 215 - Fundamental Skills for Nursing Practice
- NUR 235 - Physical Assessment
- NUR 255 - Adult Health I
- NUR 256 - Adult Health I Practicum

Upper Division Major Requirements

- NUR 301 - Communication and Informatics in Nursing Practice
- NUR 315 - Pathophysiology
- NUR 320 - Pharmacology and Nutrition
- NUR 325 - Nursing Services with the Childbearing Family
- NUR 326 - Nursing Services with the Childbearing Family Practicum
- NUR 335 - Nursing Services with the Childrearing Family
- NUR 336 - Nursing Services with Childrearing Families Practicum
- NUR 355 - Mental Health Nursing
- NUR 356 - Mental Health Nursing Practicum
- NUR 375 - Research and Writing for the Health Care Professional
- NUR 420 - Community and Public Health Nursing
- NUR 421 - Community and Public Health Nursing Practicum
- NUR 430 - Transcultural Patterns of Health
- NUR 440 - Adult Health II
- NUR 441 - Adult Health II Practicum
- NUR 450 - Nursing Services for the Older Adult and Family
- NUR 451 - Nursing Practicum with the Older Adult and Family
- NUR 460 - Ethics and Issues in Health Care

- NUR 470 - Christian Leadership in Nursing
- NUR 471 - Christian Leadership in Nursing Practicum
- NUR 494 - NCLEX Review
- NUR 499 - Senior Capstone Practicum
- PSY 345 - Abnormal Psychology for Nurses

Nursing, RN-BSN (Online)

Admission Requirements

Bachelor of Science in Nursing Admission Requirements

Licensed Registered Nurses may complete the RN to BSN degree completion program by fulfilling the required coursework and practicum hours.

Students interested in applying to the RN-BSN program must meet the following admissions requirements:

1. Acceptance to California Baptist University. Admission standards for Undergraduate Studies at California Baptist University can be found in the Admissions section of the University Catalog.
2. Active Registered Nurse License
3. A minimum 2.7 Grade Point Average
4. Official sealed transcripts from all colleges and universities attended
5. A Career Statement essay of 250 words that includes the following:
    - Purpose for entering the California Baptist University College of Nursing Program
    - Long-term professional goals
    - Reasons for choosing to study at California Baptist University

Online Major Program Requirements (124 units)

Prerequisite to Program

- Current United States Registered Nursing License

Upper Division Requirements (31 units)

* Meet General Education Requirements

- NUR 300 - Theoretical Foundations and Interprofessional Communication (Communication and Fine Arts) *
- NUR 301 - Communication and Informatics in Nursing Practice (Technology) *
- NUR 315 - Pathophysiology
- NUR 327 - Health Assessment and Promotion
- NUR 375 - Research and Writing for the Health Care Professional (Humanities) *
- NUR 420 - Community and Public Health Nursing (Humanities) *
- NUR 421 - Community and Public Health Nursing Practicum
- NUR 460 - Ethics and Issues in Health Care (Philosophy) *
- NUR 470 - Christian Leadership in Nursing (Biblical and Theological) *
- NUR 471 - Christian Leadership in Nursing Practicum

Elective Requirements (6 units)

Complete six (6) elective units. Please see your advisor for a list of semester options.

Dr. Robert K. Jabs School of Business

Dr. Tim Gramling
Dean

Dr. Marina Girju
Associate Dean, Undergraduate Programs

Dr. Tad Hove
Assistant Dean, Graduate Programs

Ms. Delores Washington
Administrative Assistant
Phone 951.343.4329
dwashington@calbaptist.edu

Faculty Information

Our mission is to prepare a new generation of business leaders with the knowledge, real-world skills, and nurtured talents to successfully live out their purpose in the modern marketplace. We prepare our graduates to contribute to society's need for trustworthy organizational leaders who restore hope that business has a valuable role in our world. Because we are created in the image of God and He has good work for us to do, we affirm that business is to create and supply with integrity the products and services that meet the needs of people everywhere. In this pursuit, we teach our students that personal development, profit, and economic growth are at their best when they energize the creation of value in individual lives, families, neighborhoods, communities, and thriving enterprises.

The School of Business provides a variety of programs that prepare students to be competitive in the workforce. Undergraduate majors include Accounting, Business Administration, Entrepreneurship, Finance, International Business, Leadership Studies, and Marketing. Concentrations within the Business Administration major include: Entrepreneurship, Family Business Management, Finance, Management, Real Estate, and Social Entrepreneurship.

In addition to courses that provide students with in-depth strategic, theoretical, and leadership skills, students experience real-world application through hands-on, applied projects with local companies and non-profit organizations. Additional learning opportunities within the School of Business include its various clubs, such as the Accounting Society, Idea Launchpad, Marketing Club and Investment Group, as well as events and networking opportunities throughout the academic year. All these enable students to connect with business leaders and mentors. Students can also take advantage of the school's employer database to obtain internships and working experience.

Upon graduation, many of our students can easily further their graduate studies in the School of Business with a Master of Business Administration with concentrations in Accounting, Healthcare Administration, and Management. These programs are all accredited by the Accreditation Council for Business Schools and Programs (ACBSP). The School of Business also offers the Master of Science in Information Technology Management with concentrations in Business Analytics, and Information Systems. The Business Analytics program provides each student with SAS certification upon completion of their program. The Masters in Leadership and Management Studies degree prepares students for effective and ethical leadership that is highly sought after in the current global business market. Students in the MBA program participate in a global business trip experience with faculty and their colleagues as part of their tuition. Graduates are employed as executives, accountants, financial managers, business owners, entrepreneurs, marketing professionals, government officials and non-profit leaders.

Accounting, BS

Traditional Major Program Requirements (69 units)

The Accounting major prepares students for careers in public accounting, corporate accounting, managerial accounting, and government and not-for-profit accounting with curriculum that is specifically designed to prepare students for the CPA exam and accounting professions.

Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles **OR**
- BUS 337 - Management with Biblical Foundation

- CIS 270 - Business IT Application

Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

Upper Division Accounting Requirements

- ACC 310 - Intermediate Accounting I
- ACC 311 - Intermediate Accounting II
- ACC 320 - Cost Accounting
- ACC 330 - Governmental and Non-profit Accounting
- ACC 410 - Advanced Accounting
- ACC 420 - Accounting Information Systems
- ACC 430 - Federal Income Tax Accounting
- ACC 470 - Auditing
- ACC 480 - Accounting Ethics **OR**
- FIN 405 - Financial Analysis and Forecasting

Business Administration, BS

Traditional Major Program Requirements (60 units)

The Business Administration major prepares students for leadership in small and large businesses, not-for-profit and governmental organizations, and entrepreneurial enterprises.

Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics

- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 356 - Business Communication
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: Entrepreneurship; Family Business Management; Human Resources Management; Management; Real Estate Management; Social Entrepreneurship; Strategic Business Analysis and Insights

Entrepreneurship (12 units)

- ENT 357 - Small Business Management
- ENT 442 - Opportunity and the Lean Startup
- ENT 462 - Entrepreneurial Behavior and Leadership

Entrepreneurship Elective Requirement

Complete three (3) additional units from the following:

- BUS 374 - Entrepreneurial Finance
- BUS 435 - Leadership in Organizations
- BUS 464 - Family Business Management
- BUS 489 - Business Practicum
- BUS 491 - Internship in Business
- ENT 362 - Social Entrepreneurship

Family Business Management (12 units)

- BUS 464 - Family Business Management
- ENT 357 - Small Business Management
- ENT 462 - Entrepreneurial Behavior and Leadership
- LDR 470 - Group and Leadership

Human Resources Management (12 units)

- BUS 343 - Human Resource Management
- BUS 457 - Negotiation and Conflict Resolution
- LDR 470 - Group and Leadership

- PSY 388 - Industrial and Organizational Psychology

Management (12 units)

- BUS 343 - Human Resource Management
- ENT 357 - Small Business Management

Management Elective Requirement

Complete three (3) additional units from the following:

- BUS 435 - Leadership in Organizations
- BUS 454 - International Management
- BUS 464 - Family Business Management
- BUS 475 - Project and Team Management

Management Additional Elective Requirement

Complete three (3) additional units from the following:

- BUS 435 - Leadership in Organizations
- BUS 454 - International Management
- BUS 464 - Family Business Management
- BUS 475 - Project and Team Management
- BUS 489 - Business Practicum
- BUS 491 - Internship in Business

Real Estate Management (12 units)

- REM 301 - Real Estate Principles
- REM 336 - Real Estate Practice
- REM 406 - Real Estate Law
- REM 436 - Real Estate Finance

Social Entrepreneurship (12 units)

- BUS 363 - Microfinance
- ENT 362 - Social Entrepreneurship
- ENT 442 - Opportunity and the Lean Startup

Social Entrepreneurship Elective Requirement

Complete three (3) additional units from the following:

- BUS 489 - Business Practicum
- BUS 491 - Internship in Business
- ICS 375 - Current Events and Movements

Strategic Business Analysis and Insights (12 units)

- BUS 380 - Business Analytics Visualization and Strategy
- BUS 381 - Spatial Analytics in Business
- BUS 480 - Business Models and Analytics
- BUS 481 - Design Thinking in Business Analysis

Entrepreneurship, BS

Traditional Major Program Requirements (45-66 units)

The Entrepreneurship major prepares students not majoring in Business Administration, Marketing or Accounting for: recognizing opportunities; acting entrepreneurially; communicating ideas using foundational language, concepts, and techniques of business; leading a new entrepreneurial venture.

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

Upper Division Requirements

- BUS 303 - Business Finance
- BUS 334 - International Business
- BUS 358 - Business Law
- BUS 485 - Business Policy and Strategy
- ENT 357 - Small Business Management
- ENT 442 - Opportunity and the Lean Startup
- ENT 462 - Entrepreneurial Behavior and Leadership
- MKT 333 - Principles of Marketing

Upper Division Elective Requirement

Complete three (3) additional upper division units from the following:

- BUS 374 - Entrepreneurial Finance
- ENT 362 - Social Entrepreneurship

Concentration Courses (18-21 units)

Students must complete all requirements for a second major, a minor, or the Business or Family Business Management concentration:

Business (21 units)

- BUS 218 - Macroeconomics
- BUS 343 - Human Resource Management
- BUS 356 - Business Communication

- BUS 464 - Family Business Management
- BUS 491 - Internship in Business **OR**
- MKT 491 - Marketing Internship
- MKT 353 - Integrated Marketing Communications

Elective Requirement

Complete three (3) additional units from the following:

- ACC 251 - Principles of Accounting II
- BUS 315 - Business Statistics
- BUS 463 - Business and Organizational Management

Family Business Management (18 units)

- BUS 356 - Business Communication
- BUS 464 - Family Business Management
- LDR 430 - Decision Making and Leadership
- LDR 470 - Group and Leadership
- MKT 443 - Personal Selling and Sales Management

Elective Requirement

Complete three (3) additional units from the following:

- MKT 353 - Integrated Marketing Communications
- MKT 363 - Social Media and Content Marketing

Finance, BS

Traditional Major Program Requirements (75 units)

The Finance major is designed for students interested in stewardship of financial resources of individuals, corporations, or financial institutions. Program equips students with requisite concept and analytical tools to evaluate and develop solutions for new financial challenges facing our society. Preparation for variety of competing opportunities whether in corporate finance, insurance, banking or pursuing the Chartered Financial Analyst or Certified Financial Planner designations.

Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application
- FIN 101 - Personal Financial Management

Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 356 - Business Communication
- BUS 358 - Business Law
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

Upper Division Finance Requirements

- ACC 430 - Federal Income Tax Accounting
- BUS 474 - International Business Finance
- COM 308 - Interpersonal Communications
- FIN 310 - Intermediate Business Finance
- FIN 325 - Financial Markets and Institutions
- FIN 405 - Financial Analysis and Forecasting
- FIN 415 - Investments
- FIN 425 - Retirement and Estate Planning
- FIN 430 - Risk Management

Upper Division Finance Elective Requirement

Complete three (3) units from the following:

- ACC 480 - Accounting Ethics
- FIN 489 - Finance Practicum
- FIN 491 - Internship in Finance
- REM 436 - Real Estate Finance

International Business, BS

Traditional Major Program Requirements (60-64 units)

International Business is an area of study that continues to grow as world markets become increasingly interdependent. The major prepares students for careers in international business, international non-profit work, and international missionary work. The major is designed for students who want to be successful in the global marketplace by learning to interact and respect other cultures for successful cross-cultural engagement.

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

Upper Division Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 356 - Business Communication
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

Concentration Courses (12-16 units)

Students must complete all requirements in one of the following concentrations: International Business Administration; International Business Management

International Business Administration (12 units)

- BUS 352 - Global Supply Chain Management
- BUS 454 - International Management
- BUS 457 - Negotiation and Conflict Resolution
- MKT 444 - International Marketing

International Business Management (16 units)

- BUS 291 - International Business Practicum Prep I
- BUS 292 - International Business Practicum Prep II
- BUS 352 - Global Supply Chain Management
- BUS 391 - International Business Practicum Prep III
- BUS 392 - International Business Practicum Prep IV
- BUS 393 - International Business Internship Practicum
- BUS 454 - International Management
- MKT 444 - International Marketing

Leadership Studies, BA

Traditional Major Program Requirements (36 units)

The Leadership Studies major is designed as a complimentary second major. To earn the Leadership Studies major students must first declare a primary major program of study and complete all requirements for both majors.

Upper Division Requirements

- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership
- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Group and Leadership

- LDR 491 - Internship

Upper Division Elective Requirements

- Complete twelve (12) additional upper division units

Major Requirement

- Declaration of another major program as the primary major

Marketing, BS

Traditional Major Program Requirements (69 units)

The Marketing major prepares students for careers in sales, advertising, corporate marketing and retail and merchandising. Students are encouraged to seek internship opportunities when possible.

Lower Division Core Business Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 101 - Introduction to Business
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles
- CIS 270 - Business IT Application

Upper Division Core Business Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 356 - Business Communication
- BUS 358 - Business Law
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

Upper Division Marketing Requirements

- MKT 323 - Marketing Research
- MKT 353 - Integrated Marketing Communications
- MKT 458 - Consumer Behavior
- MKT 463 - Marketing Management

Concentration Courses (12 units)

Students must complete all requirements in one of the following concentrations: International Marketing; Marketing Management; Sales Management; Sport Marketing

International Marketing

- BUS 457 - Negotiation and Conflict Resolution
- LDR 450 - Culture and Leadership
- MKT 444 - International Marketing (3 units)
- MKT 491 - Marketing Internship

Marketing Management

- Complete nine (9) upper division units in Marketing *
  * No more than three (3) units of MKT 491 may be applied to the concentration.

Additional Elective Requirement

Complete three (3) additional upper division units in Marketing * or one of the following:

- COM 308 - Interpersonal Communications
- PRL 300 - Public Relations
- BUS 457 - Negotiation and Conflict Resolution

Sales Management

- COM 308 - Interpersonal Communications
- MKT 313 - Retailing and Merchandising
- MKT 443 - Personal Selling and Sales Management
- MKT 491 - Marketing Internship (3 units)

Sport Marketing

- KIN 454 - Behavioral Aspects of Sport
- MKT 363 - Social Media and Content Marketing
- MKT 491 - Marketing Internship (3 units)
- PRL 300 - Public Relations

Business Administration Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- BUS 101 - Introduction to Business
- BUS 237 - Management Based on Biblical Principles

Economics Requirement

Complete three (3) units from the following:

- BUS 212 - Economics, Life, and Society
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics

Upper Division Requirements

- BUS 303 - Business Finance **OR**
- ENT 357 - Small Business Management

- BUS 358 - Business Law
- BUS 463 - Business and Organizational Management
- MKT 333 - Principles of Marketing

Entrepreneurship Minor

Traditional Minor Program Requirements (21 units)

Upper Division Requirements

- ENT 357 - Small Business Management
- ENT 442 - Opportunity and the Lean Startup
- ENT 462 - Entrepreneurial Behavior and Leadership
- MKT 333 - Principles of Marketing
- MKT 443 - Personal Selling and Sales Management

Upper Division Elective Requirements

Complete six (6) additional upper division units from the following:

- BUS 359 - Intellectual Property Law
- BUS 464 - Family Business Management
- BUS 491 - Internship in Business
- ENT 362 - Social Entrepreneurship

Finance Minor

Traditional Minor Program Requirements (21 units)

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- CIS 265 - Information Systems Essentials

Upper Division Requirements

- BUS 303 - Business Finance
- FIN 310 - Intermediate Business Finance

- FIN 325 - Financial Markets and Institutions
- FIN 405 - Financial Analysis and Forecasting

Upper Division Finance Elective Requirement

Complete three (3) units from the following:

- ACC 430 - Federal Income Tax Accounting
- FIN 425 - Retirement and Estate Planning
- FIN 491 - Internship in Finance

Pre-Requisite Requirements for Finance Minor

- BUS 218 - Macroeconomics
- BUS 315 - Business Statistics

- ACC 251 - Principles of Accounting II **OR**
- FIN 415 - Investments

International Business Minor

Traditional Minor Program Requirements (24 units)

Lower Division Requirements

- BUS 218 - Macroeconomics
- BUS 237 - Management Based on Biblical Principles

Upper Division Requirements

- BUS 334 - International Business
- BUS 352 - Global Supply Chain Management
- BUS 454 - International Management
- BUS 457 - Negotiation and Conflict Resolution
- MKT 333 - Principles of Marketing
- MKT 444 - International Marketing

Leadership Studies Minor

Traditional Minor Program Requirements (18 units)

The Leadership Studies minor equips students with the foundational knowledge and skills to effectively serve in a variety of formal and informal leadership roles. The minor is designed to enhance students' competitiveness in the labor market as a strategic complement to any major.

Upper Division Requirements

- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership

Upper Division Elective Requirements

Complete twelve (12) upper division units from the following:

- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Group and Leadership

Marketing Minor

Traditional Minor Program Requirements (21 units)

Lower Division Requirement

- BUS 101 - Introduction to Business

Upper Division Requirements

- MKT 333 - Principles of Marketing
- MKT 353 - Integrated Marketing Communications
- MKT 458 - Consumer Behavior
- MKT 463 - Marketing Management

Upper Division Marketing Elective Requirements

Complete six (6) additional units from the following:

* No more than three (3) units of MKT 491 can apply to the minor

- MKT 313 - Retailing and Merchandising
- MKT 323 - Marketing Research
- MKT 363 - Social Media and Content Marketing
- MKT 443 - Personal Selling and Sales Management
- MKT 444 - International Marketing
- MKT 491 - Marketing Internship *

Real Estate Minor

Traditional Minor Program Requirements (21 units)

Upper Division Requirements

- REM 301 - Real Estate Principles
- REM 336 - Real Estate Practice
- REM 406 - Real Estate Law
- REM 436 - Real Estate Finance
- MKT 333 - Principles of Marketing

- MKT 363 - Social Media and Content Marketing
- MKT 443 - Personal Selling and Sales Management

Leadership Studies Certificate

Traditional Certificate Program Requirements (12 units)

The Leadership Studies Certificate is issued by the Office of the University Registrar upon student request and completion of the below courses.

Upper Division Requirements

- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership

Upper Division Elective Requirements

Complete six (6) additional units from the following:

- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Group and Leadership

School of Christian Ministries

Dr. Chris Morgan
Dean

Dr. Anthony Chute
Associate Dean

Ms. Maigen Turner
Administrative Secretary
Phone 951.343.4248
FAX 951.343.4436
maturner@calbaptist.edu

Faculty Information

The School of Christian Ministries equips students to serve and lead in churches and other ministry-related organizations. The School's objective is to guide students to become biblically centered, theologically grounded, historically informed, philosophically conscious, ethically engaged, and practically equipped for the benefit of the church and the advancement of Christ's kingdom among the nations.

The School of Christian Ministries offers the Bachelor of Applied Theology (BAT) degree, a program designed to equip a new generation of pastoral leaders. The Bachelor of Applied Theology degree is fully directed, combining rigorous biblical and theological study with practical ministry experience.

The Bachelor of Arts in Christian Studies gives students a broad understanding of the Bible, biblical interpretation, Christian theology, Christian history, and Christian ministry.

The Intercultural Studies major, Global Studies minor, and Global Justice minor help students to think globally as they learn about cultures and people groups, for the purpose of developing passion for the nations and strategies for reaching the world with the gospel.

The Philosophy program teaches students to recognize, analyze, and engage the central issues of human existence in a historical context, emphasizing the integration of faith in academic study and Christian living. The Ethics minor equips students to understand the basis of moral thought and develop critical thinking skills related to moral evaluations.

Students who pair a School of Christian Ministries major with a second major outside SCM are eligible for the double major scholarship. With a double major, students are able to study the Bible at a deeper level, develop their theology, and integrate their faith in work and the world.

The School of Christian Ministries also directs the University Honors Program, a community of students who research, debate, and discuss the key questions of life. Students in the Honors Program replace required general education courses with more advanced seminars that explore the intersections of faith, history, science, philosophy, literature, and culture.

Applied Theology, BAT

Traditional Degree Program Requirements (124 units)

The Bachelor of Applied Theology degree is an intensely practical degree that utilizes the basics of the Christian Studies degree as its foundation. It is designed for students who are centered in their desire to prepare for Christian ministry vocations. As a fully directed program, it will enable students to study with similarly minded people and will afford students opportunity for ministry involvement. Students must submit an application to the School of Christian Ministries and be accepted to enroll in the Bachelor of Applied Theology program.

General Education Requirements

The program requirements will follow the curriculum set forth for other University programs. Specific coursework will be determined by the Dean of the School of Christian Ministries in consultation with the faculty of other Schools/Departments. Some general education requirements will be met through specific Applied Theology requirements.

Lower Division Requirements (23 units)

- APT 192 - Foundations for Ministry
- APT 292 - Theology of Pastoral Ministry
- APT 293 - Supervised Church Ministry Internship I
- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church
- PHI 213 - Introduction to Philosophy

Biblical Language Requirements (12 units)

Complete two (2) of the following two-semester sequences:

- GRK 213 - Introduction to Koiné Greek I
- GRK 223 - Introduction to Koiné Greek II
  OR
- GRK 313 - Intermediate Greek
- GRK 323 - Intermediate Greek
  OR
- HEB 213 - Biblical Hebrew I
- HEB 223 - Biblical Hebrew II
  OR
- HEB 313 - Intermediate Biblical Hebrew I
- HEB 323 - Intermediate Biblical Hebrew II

Upper Division Requirements (51 units)

- APT 365 - Doctrine of the Church
- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- APT 392 - Supervised Church Ministry Internship II
- APT 393 - Supervised Church Ministry Internship III
- APT 452 - Advanced Biblical Preaching
- APT 482 - Pastoral Leadership
- APT 492 - Supervised Church Ministry Internship IV
- APT 495 - Senior Exegesis Seminar
- CST 300 - History of Baptist Thought
- CST 350 - Biblical Interpretation
- CST 360 - Church History
- CST 412 - Special Topics in Theology
- CST 414 - Special Topics in Christian Ministry
- CST 451 - Biblical Preaching
- ICS 305 - Global Christianity

- ICS 435 - Evangelism and Church Planting
- PHI 303 - Apologetics

Christian Studies, BA

Traditional Major Program Requirements (45-48 units)

The Christian Studies major prepares students for careers in churches and other ministry related vocations. Students select at least one concentration and are required to complete applied field experience.

Lower Division Requirements

Christian Studies majors should not take CST 110 and CST 130.

- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church

Upper Division Requirements

- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- CST 300 - History of Baptist Thought
- CST 350 - Biblical Interpretation
- CST 360 - Church History

Upper Division Biblical Studies Requirement

Complete three (3) units of upper division Biblical Studies coursework from the following:

- CST 310 - Old Testament Exegesis
- CST 311 - New Testament Exegesis
- CST 315 - Old Testament Ethics
- CST 330 - The Gospel According to John
- CST 331 - The Parables of Jesus
- CST 410 - Special Topics in Old Testament
- CST 411 - Special Topics in New Testament
- CST 412 - Special Topics in Theology
- CST 421 - Biblical History of Israel
- CST 440 - Romans
- CST 442 - Revelation
- CST 450 - Old Testament Theology
- CST 460 - Biblical Theology

Upper Division Elective Requirement

Complete three (3) additional units of upper division coursework, beyond other major or concentration requirements, from the following:

- APT 352 - The Pastor as Worship Leader
- APT 365 - Doctrine of the Church
- APT 482 - Pastoral Leadership
- CST 307 - Deaf Ministry
- CST 310 - Old Testament Exegesis
- CST 311 - New Testament Exegesis
- CST 315 - Old Testament Ethics
- CST 330 - The Gospel According to John
- CST 331 - The Parables of Jesus
- CST 383 - Ministry with Youth
- CST 410 - Special Topics in Old Testament
- CST 411 - Special Topics in New Testament
- CST 412 - Special Topics in Theology
- CST 421 - Biblical History of Israel
- CST 425 - Christian Social Ethics
- CST 440 - Romans
- CST 442 - Revelation
- CST 450 - Old Testament Theology
- CST 451 - Biblical Preaching
- CST 490 - Supervised Ministry
- CST 491 - International Missions Practicum
- ICS 305 - Global Christianity
- ICS 375 - Current Events and Movements
- ICS 410 - Global and Urban Ministries
- ICS 430 - Intercultural Communication and Practice
- ICS 435 - Evangelism and Church Planting
- PHI 303 - Apologetics
- PHI 324 - Applied Ethics
- PHI 343 - Philosophy of Religion
- PHI 353 - Comparative Religions
- PHI 433 - Apologetics: Theory and Method

Concentration Courses (12-15 units)

Students must complete all requirements in one of the following concentrations: Apologetics; Biblical Languages; Christian Ministry; Global Justice; Global Studies; Pastoral Leadership; Theology; Youth Ministry

Apologetics (12 units)

Complete six (6) units from the following:

- PHI 303 - Apologetics
- PHI 343 - Philosophy of Religion
- PHI 403 - Cultural Apologetics
- PHI 433 - Apologetics: Theory and Method

Complete six (6) units from the following:

- CST 412 - Special Topics in Theology
- ICS 410 - Global and Urban Ministries
- ICS 435 - Evangelism and Church Planting
- PHI 421 - Twentieth-century Ethics

Biblical Languages (12 units)

- GRK 313 - Intermediate Greek
- GRK 323 - Intermediate Greek
- HEB 213 - Biblical Hebrew I
- HEB 223 - Biblical Hebrew II

Prerequisites to concentration:

- GRK 213 - Introduction to Koiné Greek I
- GRK 223 - Introduction to Koiné Greek II

Christian Ministry (15 units)

Complete fifteen (15) units from the following:

- APT 365 - Doctrine of the Church
- APT 482 - Pastoral Leadership
- CST 307 - Deaf Ministry
- CST 381 - Christian Missions
- CST 383 - Ministry with Youth
- CST 412 - Special Topics in Theology
- CST 414 - Special Topics in Christian Ministry
- CST 425 - Christian Social Ethics
- CST 451 - Biblical Preaching
- CST 480 - Pastoral Ministry and Leadership
- CST 484 - Current Trends in Youth Ministry
- CST 491 - International Missions Practicum
- ICS 305 - Global Christianity
- ICS 375 - Current Events and Movements
- ICS 410 - Global and Urban Ministries
- ICS 415 - Special Topics in Intercultural Studies
- ICS 430 - Intercultural Communication and Practice
- ICS 431 - Cross-cultural Immersion
- ICS 435 - Evangelism and Church Planting

Global Justice (12 units)

- ICS 305 - Global Christianity
- ICS 375 - Current Events and Movements *OR*
- CST 425 - Christian Social Ethics

- ICS 410 - Global and Urban Ministries *OR*
- ICS 435 - Evangelism and Church Planting

- PHI 353 - Comparative Religions

Global Studies (12 units)

- APT 365 - Doctrine of the Church

- ICS 305 - Global Christianity
- ICS 410 - Global and Urban Ministries
- ICS 435 - Evangelism and Church Planting

Recommended:

- ANT 225 - Cultural Anthropology
- ANT 430 - Culture and Personality

Pastoral Leadership (12 units)

- APT 482 - Pastoral Leadership
- CST 451 - Biblical Preaching
  Complete six (6) units from the following:
- APT 452 - Advanced Biblical Preaching
- APT 365 - Doctrine of the Church
- ICS 410 - Global and Urban Ministries
- ICS 435 - Evangelism and Church Planting

Theology (12 units)

- APT 365 - Doctrine of the Church
- CST 412 - Special Topics in Theology
  Complete six (6) units from the following:
- CST 310 - Old Testament Exegesis
- CST 311 - New Testament Exegesis
- CST 330 - The Gospel According to John
- CST 331 - The Parables of Jesus
- CST 440 - Romans
- CST 442 - Revelation
- CST 450 - Old Testament Theology
- CST 460 - Biblical Theology

Youth Ministry (12 units)

- APT 482 - Pastoral Leadership
- CST 383 - Ministry with Youth
- CST 451 - Biblical Preaching
  Complete three (3) units from the following:
- APT 365 - Doctrine of the Church
- APT 452 - Advanced Biblical Preaching
- ICS 410 - Global and Urban Ministries

Intercultural Studies, BA

Traditional Major Program Requirements (45-48 units)

Lower Division Requirements

- ICS 105 - Introduction to Global Studies
- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey

Upper Division Requirements

International/Intercultural experience required.

- APT 365 - Doctrine of the Church
- CST 370 - The Christian Faith
- ICS 305 - Global Christianity
- ICS 375 - Current Events and Movements
- ICS 410 - Global and Urban Ministries
- ICS 415 - Special Topics in Intercultural Studies
- ICS 430 - Intercultural Communication and Practice
- PHI 353 - Comparative Religions

Concentration Courses (12-15 units)

Students must complete all requirements in one of the following concentrations: Global Justice; Global Missions; TESOL

Global Justice (12 units)

- BUS 363 - Microfinance *OR*
- ENT 362 - Social Entrepreneurship

- CST 425 - Christian Social Ethics
- ICS 415 - Special Topics in Intercultural Studies

- POL 401 - Special Topics in Government **OR**
- POL 437 - Globalization **OR**
- POL 454 - International Organizations **OR**
- POL 471 - Terrorism

Global Missions (12 units)

- CST 350 - Biblical Interpretation

- CST 451 - Biblical Preaching **OR**
- APT 482 - Pastoral Leadership

- ICS 205 - Models of Discipleship
- ICS 435 - Evangelism and Church Planting

TESOL (Teachers of English to Speakers of Other Languages) (15 units)

- ENG 442 - Teaching Second Language Writing
- ENG 446 - Teaching Second Language Reading
- ENG 452 - Second Language Curriculum Development and Assessment

- ENG 463 - Language Structure and Acquisition
- ENG 472 - Theory and Methods of TESOL

Philosophy, BA

Traditional Major Program Requirements (36 units)

The Philosophy major provides students with in-depth study of Western philosophy, from classical to modern eras. Emphasis is given to the development of critical thinking and writing skills. Students are encouraged to select a complementary second major or minor.

Lower Division Requirements

- CST 110 - Old Testament Survey *OR*
- CST 130 - New Testament Survey *OR*
- ICS 105 - Introduction to Global Studies

- PHI 213 - Introduction to Philosophy *OR*
- WLD 181 - Goodness, Truth and Beauty

Upper Division Requirements

- APT 371 - Christian Theology I
- APT 372 - Christian Theology II

- PHI 300 - Logic **OR**
- MAT 313 - Mathematical Proof and Structures

- PHI 301 - History of Western Philosophy I
- PHI 302 - History of Western Philosophy II
- PHI 303 - Apologetics
- PHI 312 - Aesthetics
- PHI 320 - Epistemology
- PHI 323 - Ethics
- PHI 363 - Metaphysics

Christian Studies Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirements

- CST 110 - Old Testament Survey
- CST 130 - New Testament Survey

Upper Division Requirements

- CST 350 - Biblical Interpretation
- CST 360 - Church History

- CST 370 - The Christian Faith

Upper Division Elective Requirement

Complete three (3) additional units from the following:

- APT 352 - The Pastor as Worship Leader
- APT 365 - Doctrine of the Church
- APT 482 - Pastoral Leadership
- CST 307 - Deaf Ministry
- CST 383 - Ministry with Youth
- CST 425 - Christian Social Ethics
- CST 451 - Biblical Preaching
- CST 490 - Supervised Ministry
- CST 491 - International Missions Practicum
- ICS 305 - Global Christianity
- ICS 375 - Current Events and Movements
- ICS 410 - Global and Urban Ministries
- ICS 430 - Intercultural Communication and Practice
- ICS 435 - Evangelism and Church Planting
- PHI 303 - Apologetics
- PHI 324 - Applied Ethics
- PHI 343 - Philosophy of Religion
- PHI 353 - Comparative Religions
- PHI 433 - Apologetics: Theory and Method

Ethics Minor

Traditional Minor Program Requirements (18 units)

The minor in Ethics equips students to become aware of the basis of moral thought, develop critical thinking skills related to moral evaluations, and engage in ethical behavior.

Lower Division Requirements

- CST 110 - Old Testament Survey *OR*
- CST 130 - New Testament Survey

- PHI 213 - Introduction to Philosophy *OR*
- WLD 181 - Goodness, Truth and Beauty

Upper Division Requirements

- CST 370 - The Christian Faith
- PHI 323 - Ethics
- PHI 482 - Bioethics

Upper Division Additional Requirement

Complete three (3) units from the following:

- ACC 480 - Accounting Ethics
- AIR 303 - Air Force Leadership and Management III
- CIT 360 - Legal and Ethical Practices in Information Technology
- CJS 304 - Ethics for Law Enforcement
- COM 375 - Legal, Ethical, and Social Foundations of Communication
- CST 315 - Old Testament Ethics
- CST 425 - Christian Social Ethics
- EDU 440 - Classroom Management and Ethics
- HCA 450 - Healthcare Legal Issues and Ethics
- HIS 436 - Ethics After the Holocaust
- HMS 320 - Ethics and Legal Implications of Human Services
- JRN 320 - Media Law, Ethics, and Copyright
- LDR 410 - Ethical and Biblical Principles for Leadership
- MUS 385 - Digital Media Ethics
- NUR 460 - Ethics and Issues in Health Care
- PHI 324 - Applied Ethics
- SCI 311 - Genetic Engineering and Society
- SPP 430 - Ethics and Leadership in Performance Psychology

Global Integration Studies Minor

Traditional Minor Program Requirements (21 units)

The Global Integration Studies minor is designed to prepare students to utilize their majors while living intentionally and missionally overseas. The core requirements provide the students with the necessary theological foundation. The discipline-specific requirements prepare the students to use their academic discipline to meet physical and spiritual needs within their communities while living in a cross-cultural context.

Core Requirements

- ICS 305 - Global Christianity
- ICS 325 - Spiritual Formations for Global Engagement
- ICS 375 - Current Events and Movements
- PHI 353 - Comparative Religions

Discipline Requirements

Complete nine (9) units from one of the following discipline sequences:

Business

- BUS 334 - International Business
- BUS 398 - Study Abroad
- BUS 454 - International Management

Global Justice

- BUS 363 - Microfinance
- ICS 431 - Cross-cultural Immersion
- POL 454 - International Organizations

Nursing

- NUR 431 - Global Service-Learning in Nursing: Core Concepts
- NUR 432 - Global Service-Learning in Nursing: Advanced Concepts
- NUR 433 - Global Service-Learning in Nursing: Immersion Practicum

Political Science

- ICS 431 - Cross-cultural Immersion
- POL 415 - World Geography
- POL 454 - International Organizations

Global Justice Minor

Traditional Minor Program Requirements (21 units)

The Global Justice minor is designed to complement a variety of professional degrees taken by students who wish to serve in non-profit relief and development work, either domestically or internationally. The integrated curriculum will provide an introduction to the theological and theoretical foundations of social justice, the major social problems and movements, international organizations, and models of integrating their major and professional discipline with global service.

Core Requirements

- BUS 218 - Macroeconomics *OR*
- BUS 363 - Microfinance *OR*
- ENT 362 - Social Entrepreneurship

- ICS 105 - Introduction to Global Studies *OR*
- ICS 305 - Global Christianity

- ICS 375 - Current Events and Movements

Elective Requirements

Complete twelve (12) units from the following:

- CST 315 - Old Testament Ethics
- CST 425 - Christian Social Ethics
- ICS 415 - Special Topics in Intercultural Studies
- PHI 353 - Comparative Religions
- POL 454 - International Organizations

Global Studies Minor

Traditional Minor Program Requirements (21 units)

The Global Studies minor is designed to complement a broad range of majors, and to prepare students for international ministry and cross-cultural professional opportunities. The minor includes a study abroad requirement.

General Education Recommendations

- ANT 225 - Cultural Anthropology
- ANT 430 - Culture and Personality

Lower Division Requirements

- ICS 105 - Introduction to Global Studies
- ICS 205 - Models of Discipleship

Upper Division Requirements

*International/Intercultural experience required.

- ICS 305 - Global Christianity
- ICS 410 - Global and Urban Ministries
- ICS 430 - Intercultural Communication and Practice
- ICS 431 - Cross-cultural Immersion *
- PHI 353 - Comparative Religions

Philosophy Minor

Traditional Minor Program Requirements (18 units)

Lower Division Requirements

- CST 110 - Old Testament Survey *OR*
- CST 130 - New Testament Survey

- PHI 213 - Introduction to Philosophy *OR*
- WLD 181 - Goodness, Truth and Beauty

Upper Division Requirements

- CST 370 - The Christian Faith
- PHI 301 - History of Western Philosophy I
- Six (6) additional units of upper division Philosophy

Dr. Bonnie G. Metcalf School of Education

Dr. Robin Duncan
Dean

Dr. Rosenda Pike
Associate Dean

Josselyn Hernandez
Phone 951.343.4448
FAX 951.343.4553

Faculty Information

The School of Education offers a full range of programs in education, including state approved credential programs leading to careers in elementary, secondary, special education, School Psychology and School Counseling. Programs leading to a credential are approved by the Commission on Teacher Credentialing.

In addition to the Preliminary Multiple Subject and Single Subject Teaching Credentials, students may also seek additional credential programs and a master's degree through the School of Education. The Elementary Education major allows candidates to complete subject matter course work as well as the necessary credential coursework that provides the requisite knowledge and skills to teach in a multiple subject classroom. Students seeking a Single Subject Credential are required to major in the content area they plan to teach and may also declare Preliminary Single Subject Credential as their second major. Single Subject Candidates may satisfy Subject Matter Competence by completing an approved subject matter program at the University or by passing the appropriate state examination.

The credential programs offered by California Baptist University are state approved programs and are subject to revision at any time by state or federal law. Please contact the School of Education for more information. The University and the School of Education reserve the right to modify the teacher credentialing requirements when directed to do so by the Commission on Teacher Credentialing.

The Early Childhood Studies major/minor prepares students for careers working with young children and their families in a variety of settings including schools, hospitals and home environments and for graduate study in related fields.

It is the mission of the Dr. Bonnie G. Metcalf School of Education of California Baptist University, a Great Commission University, to prepare professionals of high moral character and ethical behavior to serve throughout the world.

As part of the Great Commission, the faculty and staff are dedicated to their Christian responsibility outlined in Matthew 28: 19-20:

Go ye therefore, and teach all nations...and lo, I am with you always, even unto the end of the world.

Early Childhood Studies, BA

Traditional Major Program Requirements (42-55 units)

The Early Childhood Studies major prepares students for careers working with young children and their families in a variety of settings including schools, hospitals and home environments and for graduate study in related fields.

Upper Division Requirements

- ECH 320 - Cognitive Development in Infancy and Early Childhood
- ECH 340 - Perceptual-Motor Development in Infancy and Early Childhood
- ECH 350 - Social and Emotional Development in Infancy and Early Childhood
- ECH 365 - Assessment of Young Children including Children with Disabilities

- ECH 370 - Spiritual Development in Young Children
- ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities
- ECH 395 - Learning Environments for Young Children including Children with Disabilities
- ECH 415 - Consultation and Collaboration in Early Childhood Intervention
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities

- ECH 440 - STEM Curriculum Integrated with the Arts *OR*
- ECH 360 - Early Childhood Curriculum

- ECH 455 - Research Seminar in Early Childhood including Early Childhood Intervention
- ECH 460 - Adult Supervision
- ECH 461 - Administration of Early Childhood Programs I
- ECH 462 - Administration of Early Childhood Programs II

Optional Concentration in Early Childhood Intervention (13 units)

- EDU 341 - The Exceptional Child
- ECH 375 - Early Intervention: Early Childhood Special Education
- ECH 425 - Low Incidence Disabilities in Young Children
- ECH 495 - Practicum in Early Childhood and Intervention
- ECH 498 - Early Childhood Studies Portfolio

Elementary Education, BS

Traditional Major Program Requirements (118 units)

The Elementary Education major will prepare students for careers working with children and their families in public, general education, elementary schools. Candidates for the Elementary Education major will complete the state-approved Elementary Subject Matter Program, which will satisfy the subject-matter competency requirement from the California Commission on Teacher Credentialing (CTC). As a state-approved teacher preparation program, the requirements for the Elementary Subject Matter (ESM) Program are subject to revision at any time by state or federal law. Elementary Education majors will be eligible to obtain a California teaching credential, by completing the professional methods courses with fieldwork and student teaching.

Students choosing the Elementary Education major must additionally be admitted into the Credential program for Preliminary Multiple Subject Credential. Students who do not meet the credential requirements may not be able to complete the major due to accreditation requirements.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements can be obtained from the School of Education credential program advisors.

Lower Division Requirements

Subject Matter Areas

- BIO 143 - Principles of Biology
- BIO 143L - Principles of Biology Lab
- COM 113 - Oral Communication
- ENG 123 - Intermediate Composition
- ENG 201 - Introduction to Literature

- ENV 151 - Introduction to the Geosciences
- HIS 213 - History of the United States to Reconstruction
- HIS 223 - History of the United States since the Civil War
- HUM 213 - Humanities I
- HUM 223 - Humanities II
- MAT 125 - Mathematical Concepts and Applications I
- MAT 127 - Mathematical Concepts and Applications II
- MUS 205 - Music Development for the Classroom Teacher
- PSC 133 - Survey of Physical Science
- PSC 133L - Survey of Physical Science Lab
- PSY 213 - General Psychology

Elementary Education

- EDU 101 - Professional Educator Series I: The Student Experience
- EDU 102 - Professional Educator Series II: The Community Context

Upper Division Requirements

Subject Matter Areas

- ART 415 - Aesthetics and the Classroom
- ENG 353 - Introduction to Children's Literature
- ENG 454 - Writing in Context
- HIS 393 - History of California
- KIN 302 - Contemporary Health Issues
- KIN 363 - Movement Experiences for Children
- THE 312 - Drama in the Classroom

Elementary Education

- EDU 307 - Technology in the Classroom
- EDU 401 - Oral Language Development, Instruction, and Assessment
- EDU 409 - Educational Psychology
- EDU 410 - Elementary Methods
- EDU 413 - Disability Studies for General Education Teachers
- EDU 415 - Equity and Diversity in American Public Education
- EDU 416 - Pedagogical Approaches to Literacy Acquisition
- EDU 422 - Teaching Social Studies to Diverse Learners
- EDU 425 - Teaching Math to Diverse Learners
- EDU 435 - Teaching Science to Diverse Learners
- EDU 440 - Classroom Management and Ethics
- EDU 442 - Language Arts and Content Literacy Instruction for Diverse Learners
- EDU 498 - Student Teaching and Seminar
- EDU 499 - Student Teaching Portfolio

Early Childhood Studies Minor

Traditional Minor Program Requirements (24 units)

Upper Division Requirements

- ECH 320 - Cognitive Development in Infancy and Early Childhood
- ECH 340 - Perceptual-Motor Development in Infancy and Early Childhood
- ECH 350 - Social and Emotional Development in Infancy and Early Childhood
- ECH 365 - Assessment of Young Children including Children with Disabilities
- ECH 375 - Early Intervention: Early Childhood Special Education
- ECH 395 - Learning Environments for Young Children including Children with Disabilities
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities
- ECH 440 - STEM Curriculum Integrated with the Arts

Preliminary Multiple Subject Credential

Admission Requirements

Integrated Credential Program Admission Requirements

A student who is admitted to the University is not automatically admitted to the Integrated Credential Program and must meet the following requirements:

1. Demonstrate basic skills competency
    - Take the California Basic Education Skills Test (CBEST); OR
    - Demonstrate competence through an alternate route
2. Demonstrate subject matter competency
    - Enrolled in an approved subject matter competency program; OR
    - Take the California Subject Examinations for Teachers (CSET) for the appropriate credential area
3. Meet U.S. Constitution requirement
4. Grade Point Average (GPA)
    - Minimum GPA of 2.75 for acceptance
    - Maintain a GPA of 3.0 for all methods courses while in the program
5. Verification of Certificate of Clearance
6. Three Recommendations, completed on forms provided, from professional sources who can address your potential for success. Family members and friends may not complete recommendations.
7. Satisfactory interview with an Education Committee faculty member
8. Literacy sample completed at the interview

Traditional Credential Program Requirements (39 units)

Students interested in teaching elementary school should complete the requirements for the Preliminary Multiple Subject Credential. Students must demonstrate subject matter competence to complete a credential either by completing an approved subject matter program or by passing the California Subject Examinations for Teachers (CSET). Check with a School of Education advisor to find out if your major has an approved subject matter program.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements can be obtained from the School of Education credential program advisors.

Foundation Course Requirements

- EDU 409 - Educational Psychology

- EDU 411 - Theories and Methods of Teaching Diverse Students
- EDU 440 - Classroom Management and Ethics
- ETC 407 - Technology and Learning

Methods Course Requirements

- EDU 405 - Teaching Math and Science
- EDU 410 - Elementary Methods
- EDU 412 - Teaching Language Arts and Social Studies
- EDU 416 - Pedagogical Approaches to Literacy Acquisition

Capstone Course Requirements

- EDU 498 - Student Teaching and Seminar
- EDU 499 - Student Teaching Portfolio

Optional Elective

- EDU 416L - Pedagogical Approaches to Literacy Acquisition Lab

Preliminary Single Subject Credential

Admission Requirements

Integrated Credential Program Admission Requirements

A student who is admitted to the University is not automatically admitted to the Integrated Credential Program and must meet the following requirements:

1. Demonstrate basic skills competency
    - Take the California Basic Education Skills Test (CBEST); OR
    - Demonstrate competence through an alternate route
2. Demonstrate subject matter competency
    - Enrolled in an approved subject matter competency program; OR
    - Take the California Subject Examinations for Teachers (CSET) for the appropriate credential area
3. Meet U.S. Constitution requirement
4. Grade Point Average (GPA)
    - Minimum GPA of 2.75 for acceptance
    - Maintain a GPA of 3.0 for all methods courses while in the program
5. Verification of Certificate of Clearance
6. Three Recommendations, completed on forms provided, from professional sources who can address your potential for success. Family members and friends may not complete recommendations.
7. Satisfactory interview with an Education Committee faculty member
8. Literacy sample completed at the interview

Traditional Credential Program Requirements (36 units)

Students seeking a Single Subject Credential are required to major in the content area they plan to teach and may also declare Preliminary Single Subject Credential as their second major. Single Subject Candidates may satisfy Subject Matter Competence by completing an approved subject matter program at the University or by passing the appropriate state examination.

Students interested in teaching middle or high school should complete the requirements for the Preliminary Single Subject Credential. Students must demonstrate subject matter competence to complete a credential either by completing an approved subject matter program or by passing the California Subject Examinations for Teachers (CSET). Check with a School of Education advisor to find out if your major has an approved subject matter program.

Candidates must complete all credential and state requirements to be eligible for a credential. Credential requirements can be obtained from the School of Education credential program advisors.

Foundation Course Requirements

- EDU 409 - Educational Psychology
- EDU 411 - Theories and Methods of Teaching Diverse Students
- EDU 440 - Classroom Management and Ethics
- ETC 407 - Technology and Learning

Methods Course Requirements

- EDU 407 - Reading and Writing in the Content Areas
- EDU 490 - Subject Area Specialization
- EDU 497 - Secondary Methods

Capstone Course Requirements

- EDU 498 - Student Teaching and Seminar
- EDU 499 - Student Teaching Portfolio

Shelby and Ferne Collinsworth School of Music

Dr. Joseph E. Bolin
Dean

Dr. David Toledo
Associate Dean of Undergraduate Studies

Dr. Lance Beaumont
Associate Dean of Graduate Studies

Ms. Courtney Ladd
Administrative Assistant
Phone 951.343.4251
FAX 951.343.4570
schoolofmusic@calbaptist.edu

Faculty Information

California Baptist University offers a Bachelor of Arts degree in Music for Worship Arts and Ministry and a Bachelor of Music degree with the following majors: Commercial Performance, Composition, Instrumental Performance, Music Education, Piano Performance, Studio Production, and Vocal Performance. The School of Music offers two minors (Music, and Worship Arts and Ministry), as well as eight new concentrations, which may be added to most music majors to provide students with a secondary area of specialization.

The Collinsworth School of Music at California Baptist University is committed to inspiring students to the highest standards of musical craft and personal character, preparing them for success in musical professions.

With an educational environment distinguished by vibrant, interactive teaching, a prolific performance culture (featuring over 200 concerts per year), and a strong emphasis on building personal and professional character, the School of Music at California Baptist University stands as a unique scholastic institution, dedicated to providing rigorous training in the arts to equip young musicians for successful careers as performers, composers, music educators, and worship leaders.

Furthermore, the California Baptist University School of Music believes in preparing high caliber, versatile musicians. While many institutions of higher learning center their curriculum and experiences around a limited segment of the musical sphere, California Baptist University intentionally provides hands-on training in a multitude of musical styles and genres without compromise. In addition to its comprehensive focus on Western art music, the school intentionally blends folk and jazz styles, world music, commercial music, studio and technical production, and modern and traditional church music to most effectively prepare future artists for what awaits them in the modern marketplace of professional musicians.

The Collinsworth School of Music is fully accredited by the National Association of School of Music (NASM) and is committed to the continued refinement of its educational opportunities as we strive to accomplish our mission of preparing the next generation of career musicians.

Commercial Performance, BM

Traditional Major Program Requirements (85 units)

The commercial performance major trains students to be agile and adaptable music performers in the 21st century, bridging performance, music technology, and music industry practices within a practice-oriented degree. The program incorporates a diverse range of musical genres, styles, and exploration of contemporary instrumentation.

General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Sixteen (16) units of G.E. requirements will be met through the specific coursework of the Commercial Performance major. See School of Music Handbook for details.

Lower Division Performance Requirements

- MUS 012 - Class Piano I
- MUS 016 - Rhythm Instruments I
- MUS 022 - Class Piano II
- MUS 026 - Rhythm Instruments II
- MUS 046 - Popular Music Ensemble: 50s-70s (2 units)
- MUS 047 - Popular Music Ensemble: 80s-Contemporary (2 units)
- MUS 080-089 - Private Instruction (4 units, same instrument)

Lower Division Requirements

- MUS 105 - Introduction to Commercial Music Studies
- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 236 - Music Entrepreneurship
- MUS 246 - Music Marketing
- MUS 282 - Music Technology
- PHY 125 - Physics of Sound and Music
- PHY 125L - Physics of Sound and Music Lab

Upper Division Performance Requirements

- MUS 446 - Commercial Music Ensemble (4 units)
- MUS 460-469 - Private Instruction (8 units, same instrument)

Upper Division Requirements

- MUS 301 - Survey of Music History
- MUS 305 - Survey of Popular Song
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 356 - Commercial Instrumental or Vocal Project I
- MUS 360 - Theology, History, and Practice of Worship
- MUS 366 - Live Sound Techniques and Applications
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II
- MUS 396 - Lighting Techniques and Applications
- MUS 456 - Commercial Instrumental or Vocal Project II

- MUS 496 - Internship

Composition, BM

Traditional Major Program Requirements (84-86 units)

The Bachelor of Music in Composition prepares students with the fundamental musical skills, technical competencies, stylistic understanding, creative tools, and artistic cultivation to successfully pursue a career in music composition. Highlights of the program include strong theoretical and musicianship training, thorough studies in history and literature from a variety of styles and periods, study of compositional techniques from early to contemporary composers, and performance training in a major instrument which includes private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively compose and perform throughout their tenure in the program. These performances include individual solo performances, a capstone composition recital, opportunities to compose for CBU ensembles and have new student works performed, and collaborative performances in a wide cross-section of stylistic genres.

General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Composition major. See School of Music Handbook for details.

Core Applied Music Requirements

- MUS 012 - Class Piano I *
- MUS 022 - Class Piano II *
- MUS 050 - Performance Forum [1]
- MUS___ - Private Instruction (8 units minimum**)[2]
- MUS___ - Major Ensemble (8 units minimum)[3]

Note

*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

**Students must complete eight (8) units of Private Instruction on the same instrument or voice.

---

[1]Enrollment in MUS 050 - Performance Forum is required for each semester in residence of all music majors.

[2]Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

[3]Enrollment is required in at least one Major Ensemble (MUS 067, 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 282 - Music Technology

Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

Composition Major Requirements

Lower Division Requirements

- MUS 253 - Introduction to Music Composition
- MUS 283 - Electronic Music

Upper Division Requirements

- MUS 311 - Form and Analysis
- MUS 354 - Private Lessons in Composition (4 units)
- MUS 372 - Counterpoint
- MUS 390 - Projects in Musical Analysis
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting
- MUS 414 - Interpretive Arranging
- MUS 472 - Orchestration

Additional Requirements

Students must complete twelve (12) units of additional upper division music electives

OR

Complete one of the concentrations: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Songwriting; Studio Production; Worship Arts; Worship Tech

Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

Songwriting

Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

Worship Arts

- MUS 304 - Craft of Ministry I

- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 370 - Worship Technology **OR**
- CST 370 - The Christian Faith
- MUS 434 - Creative Worship Planning
- MUS 454 - Worship Forum (2 units)

Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

Instrumental Performance, BM

Traditional Major Program Requirements (84-86 units)

The Bachelor of Music in Instrumental Performance prepares students with the fundamental musical skills, technical competencies, stylistic understanding, and artistic cultivation to successfully pursue a career in instrumental performance. Highlights of the program include strong theoretical and musicianship training, thorough studies in music history and instrumental literature, pedagogical coaching, collaborative training in a variety of musical styles, and rigorous performance instruction, including private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively perform throughout their tenure. These performances include numerous individual solo performances, two capstone recital presentations, and collaborative performances in a variety of styles including orchestral and wind band works, early to contemporary chamber music, operatic and choral repertory, and modern church music.

General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Instrumental Performance major. See School of Music Handbook for details.

Core Applied Music Requirements

- MUS 012 - Class Piano I *
- MUS 022 - Class Piano II *
- MUS 050 - Performance Forum [1]
- MUS___ - Private Instruction (8 units minimum**)[2]
- MUS___ - Major Ensemble (8 units minimum)[3]

Note

*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

**Students must complete eight (8) units of Private Instruction on the same instrument or voice.

[1]Enrollment in MUS 050 - Performance Forum is required for each semester in residence of all music majors.

[2]Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

[3]Enrollment is required in at least one Major Ensemble (MUS 067, 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 282 - Music Technology

Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

Instrumental Performance Major Requirements

Private Instruction Requirements

*Students must complete eight (8) units of private instruction in the same instrumental area from the following list of courses. These eight (8) units are in addition to those in the Core Applied Music Requirements.

- MUS 463 - Private Instruction: Organ
- MUS 464 - Private Instruction: Woodwinds
- MUS 465 - Private Instruction: Brass
- MUS 466 - Private Instruction: Strings
- MUS 467 - Private Instruction: Percussion
- MUS 468 - Private Instruction: Guitar

Ensemble Requirements

Core Ensemble Requirements

Complete two (2) units from the following:

- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble

Additional Ensemble Requirements

Complete six (6) additional units from the following:

- MUS 067 - Symphonic Band
- MUS 090 - University Choir and Orchestra
- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble
- MUS 097 - Wind Ensemble
- MUS 099 - Symphony Orchestra
- MUS 489 - University Choir and Orchestra
- MUS 490A - Major Ensemble: Symphonic Band
- MUS 490F - Major Ensemble: Wind Ensemble
- MUS 490H - Major Ensemble: Symphony Orchestra
- MUS 491A - Chamber Ensemble: Strings
- MUS 491B - Chamber Ensemble: Piano
- MUS 491C - Chamber Ensemble: Guitar
- MUS 491D - Chamber Ensemble: Winds
- MUS 491E - Chamber Ensemble: Jazz Combo
- MUS 491F - Chamber Ensemble: Jazz Ensemble

Upper Division Requirements

- MUS 345 - Orchestral and Band Literature
- MUS 419 - Instrumental Pedagogy

Additional Requirements

Students must complete twelve (12) units of additional upper division music electives

OR

Complete one of the concentrations: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Songwriting; Studio Production; Worship Arts; Worship Tech

Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

Songwriting

Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

Worship Arts

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 370 - Worship Technology **OR**
- CST 370 - The Christian Faith
- MUS 434 - Creative Worship Planning
- MUS 454 - Worship Forum (2 units)

Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

Music Education, BM

Traditional Degree Program Requirements (91-106 units)

General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Music Education major. See School of Music Handbook for details.

Core Applied Music Requirements

- MUS 012 - Class Piano I *
- MUS 022 - Class Piano II *
- MUS 050 - Performance Forum [1]
- MUS___ - Private Instruction (8 units minimum**)[2]
- MUS___ - Major Ensemble (8 units minimum)[3]

Note

*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

**Students must complete eight (8) units of Private Instruction on the same instrument or voice.

---

[1]Enrollment in MUS 050 - Performance Forum is required for each semester in residence of all music majors.

[2]Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

[3]Enrollment is required in at least one Major Ensemble (MUS 067, 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures

- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 282 - Music Technology

Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

Music Education Major Requirements

Lower Division Requirement

- MUS 014 - Class Guitar

Upper Division Requirements

- MUS 311 - Form and Analysis
- MUS 405 - Introduction to Music Education
- MUS 408 - Jazz Pedagogy
- MUS 440 - Instrumental Techniques for Woodwinds
- MUS 441 - Instrumental Techniques for Brass
- MUS 442 - Instrumental Techniques for Percussion
- MUS 443 - Instrumental Techniques for Strings
- MUS 444 - Vocal Techniques
- MUS 472 - Orchestration
- MUS 473 - Advanced Studies in Music Education
- MUS 475 - General Music Methods

Emphasis Requirements

Music Education students must select an emphasis from the following: Choral Emphasis; Instrumental Emphasis

Choral Emphasis

- MUS 344 - Choral Literature
- MUS 413 - Choral Conducting
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 479 - Choral Methods
- MUS 491H - Chamber Ensemble: Chamber Singers (3 units)

Instrumental Emphasis

Core Instrumental Emphasis Requirements

- MUS 345 - Orchestral and Band Literature
- MUS 412 - Instrumental Conducting
- MUS 445 - Marching Band Techniques
- MUS 476 - Instrumental Methods

Chamber Music Requirement

Complete three (3) units from the following:

- MUS 490A - Major Ensemble: Symphonic Band
- MUS 491A - Chamber Ensemble: Strings
- MUS 491B - Chamber Ensemble: Piano
- MUS 491C - Chamber Ensemble: Guitar
- MUS 491D - Chamber Ensemble: Winds
- MUS 491E - Chamber Ensemble: Jazz Combo
- MUS 491F - Chamber Ensemble: Jazz Ensemble

Subject Matter Preparation Program in Music (16 units)

The Single Subject Matter Preparation (SSMP) Program in Music consists of approved music courses selected to provide undergraduate students the academic background necessary to qualify them to teach music courses from kindergarten through grade twelve. To obtain a Single Subject Credential in Music the student must

1. Obtain an undergraduate degree.
2. Demonstrate subject competence in music in one of two ways: Earn a passing score on a Performing Arts examination that has been adopted by the Commission on Teacher Credentialing or complete a commission approved SSMP program. The SSMP Program from CBU is an approved CTC program.
3. Complete a teaching credential program.

Students interested in the Subject Matter Preparation program should contact their Faculty Advisor in the Music Department. Students seeking a teaching credential should contact the Teacher Education Credential Program within the School of Education. (Also see the Dr. Bonnie G. Metcalf School of Education section for the Professional Methods Program for Single Subject Credential Students.)

- MUS 311 - Form and Analysis
- MUS 405 - Introduction to Music Education
- MUS 440 - Instrumental Techniques for Woodwinds
- MUS 441 - Instrumental Techniques for Brass
- MUS 442 - Instrumental Techniques for Percussion
- MUS 443 - Instrumental Techniques for Strings
- MUS 444 - Vocal Techniques *
- MUS 472 - Orchestration
- MUS 475 - General Music Methods

*Required for instrumentalists in the Subject Matter Preparation Program in Music

Music for Worship Arts and Ministry, BA

Traditional Major Program Requirements (75 units)

The Music for Worship Arts and Ministry major program is designed to prepare students for worship ministry in the highly eclectic culture of the modern evangelical church. The program is built to fully equip worship leaders/pastors to be musically excellent and stylistically versatile, proficient in pastoral and professional skills, and committed to the scriptural calling of servant leadership in the example of Christ. To earn a major in Music for Worship arts students must also declare and complete all requirements for the minor in Christian Ministries. The major and minor together is a ninety (90) unit program.

Applied Music Requirements

- MUS 015 - Class Piano for Worship Arts I *
- MUS 017 - Class Guitar for Worship Arts I
- MUS 025 - Class Piano for Worship Arts II *
- MUS 027 - Class Guitar for Worship Arts II
- MUS 050 - Performance Forum [1]
- MUS 054 - Worship Forum (4 units)
- MUS 454 - Worship Forum (4 units)

Note

*Piano Proficiency Requirements and Exemptions: Pianists who pass all fifteen (15) skills of Piano Proficiency (Division III) may be exempt from MUS 015 and MUS 025. Students must stay enrolled in Class Piano for Worship Arts until Piano Proficiency is completed.

[1]Enrollment in MUS 050 Performance Forum is required for each semester in residence of all music majors.

Private Instruction Requirements

Complete six (6) units from either of the following two courses:

- MUS 081 - Private Instruction: Voice **
- MUS 461 - Private Instruction: Voice **

Complete four (4) units from either of the following two course sequences:

- MUS 082 - Private Instruction: Piano **
- MUS 462 - Private Instruction: Piano **

OR

- MUS 088 - Private Instruction: Guitar **
- MUS 468 - Private Instruction: Guitar **

Note

**Private Instruction Requirements: Students must stay enrolled in Private Instruction: Voice AND Private Instruction: Piano OR Private Instruction: Guitar until Level 3 of the Worship Arts Proficiency is completed.

Ensemble Requirements

Complete six (6) units from the following:

- MUS 069 - Worship Collective
- MUS 090 - University Choir and Orchestra
- MUS 091 - Magnolia Singers
- MUS 092 - Lancer Chorus
- MUS 094 - Rhapsody

- MUS 489 - University Choir and Orchestra
- MUS 490C - Major Ensemble: Magnolia Singers
- MUS 490D - Major Ensemble: Lancer Chorus
- MUS 490E - Major Ensemble: Rhapsody

Lower Division Requirements

- COM 113 - Oral Communication **OR**
- CST 451 - Biblical Preaching
- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 120 - Introduction to Music Ministry
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 282 - Music Technology

Upper Division Requirements

- CBS 403 - Congregation and Community *OR*
- CBS 415 - Biblical Wisdom and Human Behavior
- MUS 301 - Survey of Music History
- MUS 304 - Craft of Ministry I
- MUS 312 - Introduction to Conducting
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 360 - Theology, History, and Practice of Worship
- MUS 364 - Songwriting and Commercial Production
- MUS 370 - Worship Technology
- MUS 404 - Craft of Ministry II
- MUS 434 - Creative Worship Planning
- MUS 474 - Worship Ministry Internship
- MUS 494 - Senior Recital and Project for Worship Arts

Christian Studies Minor Requirements

Student must declare and complete all requirements for the Christian Studies minor, including the following courses:

> **Christian Studies Courses:** CST 110, 130, 350, 360*, and 370
>
> **Upper Division Elective Requirements** (three units from the following): PHI 303, 324, 343, 353, 433
>
> * MUS 360 Theology, History, and Practice of Worship is an approved variance for CST 360 Church History (3 units) in the Christian Studies Minor.

Optional Concentrations (12 units)

Students can earn an optional concentration in the following areas: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Songwriting; Studio Production; Worship Tech

Each optional concentration requires the completion of a minimum of twelve (12) distinct units beyond the major.

Note: Music for Worship Arts and Ministry majors may not complete the Worship Arts concentration.

Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

Songwriting

Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II

- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

Piano Performance, BM

Traditional Major Program Requirements (87 units)

The Bachelor of Music in Piano Performance at CBU prepares students with the fundamental musical skills, technical competencies, stylistic understanding, and artistic cultivation to successfully pursue a career in piano performance. Highlights of the program include strong theoretical and musicianship training, thorough studies in music history and piano literature, pedagogical coaching, collaborative training in a variety of musical styles, and rigorous performance instruction, including private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively perform throughout their tenure. These performances include numerous individual solo performances, two capstone recital presentations, and collaborative performances in a variety of styles, including solo vocal and instrumental repertory, choral and instrumental ensembles, and chamber music.

General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Piano Performance major. See School of Music Handbook for details.

Core Applied Music Requirements

- MUS 050 - Performance Forum [1]
- MUS___ - Private Instruction (8 units minimum**)[2]
- MUS___ - Major Ensemble (8 units minimum)[3]

Note

Piano Performance majors must pass Piano Proficiency (Division I). The necessary skills will be covered in Private Instruction, so Class Piano is not required. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

**Students must complete eight (8) units of Private Instruction on the same instrument or voice.

---

[1]Enrollment in MUS 050 - Performance Forum is required for each semester in residence of all music majors.

[2]Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

[3]Enrollment is required in at least one Major Ensemble (MUS 067, 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 282 - Music Technology

Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

Piano Performance Major Requirements

Private Instruction Requirements

- MUS 462 - Private Instruction: Piano (8 units)

Ensemble Requirements

Core Ensemble Requirements

Complete two (2) units from the following:

- MUS 093 - Chamber Singers
- MUS 095 - Chamber Ensemble

Additional Ensemble Requirements

Complete six (6) additional units from the following:

- MUS 067 - Symphonic Band
- MUS 068 - Camerata
- MUS 090 - University Choir and Orchestra
- MUS 091 - Magnolia Singers

- MUS 092 - Lancer Chorus
- MUS 093 - Chamber Singers
- MUS 094 - Rhapsody
- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble
- MUS 097 - Wind Ensemble
- MUS 099 - Symphony Orchestra
- MUS 489 - University Choir and Orchestra
- MUS 490A - Major Ensemble: Symphonic Band
- MUS 490B - Major Ensemble: Camerata
- MUS 490C - Major Ensemble: Magnolia Singers
- MUS 490D - Major Ensemble: Lancer Chorus
- MUS 490E - Major Ensemble: Rhapsody
- MUS 490F - Major Ensemble: Wind Ensemble
- MUS 490H - Major Ensemble: Symphony Orchestra
- MUS 491B - Chamber Ensemble: Piano
- MUS 491E - Chamber Ensemble: Jazz Combo
- MUS 491F - Chamber Ensemble: Jazz Ensemble
- MUS 491H - Chamber Ensemble: Chamber Singers

Lower Division Requirement

- MUS 256 - Basics of Accompanying

Upper Division Requirements

- MUS 334 - Piano Literature I
- MUS 335 - Piano Literature II
- MUS 418 - Piano Pedagogy I

Additional Requirements

Students must complete twelve (12) units of additional upper division music electives

OR

Complete one of the concentrations: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Piano Pedagogy; Songwriting; Studio Production; Worship Arts; Worship Tech

Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists

- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II
- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

Piano Pedagogy

- MUS 405 - Introduction to Music Education
- MUS 418 - Piano Pedagogy I
- MUS 438 - Piano Pedagogy II
- MUS 450 - Observations and Practicum in Teaching Methods (2 units)
- MUS 475 - General Music Methods

Songwriting

Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

Worship Arts

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs

- MUS 370 - Worship Technology **OR**
- CST 370 - The Christian Faith
- MUS 434 - Creative Worship Planning
- MUS 454 - Worship Forum (2 units)

Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

Studio Production, BM

Traditional Major Program Requirements (86 units)

This major equips students to understand and apply technologies in the field of studio production, preparing them for diverse careers in the music industry. Students will learn technologies and principles in current use as well as emerging technologies and practices utilized by professionals within the field of studio production.

General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Sixteen (16) units of G.E. requirements will be met through the specific coursework of the Studio Production major. See School of Music Handbook for details.

Performance Requirements

- MUS 012 - Class Piano I
- MUS 016 - Rhythm Instruments I
- MUS 022 - Class Piano II
- MUS 026 - Rhythm Instruments II
- MUS 080-089 - Private Instruction (4 units)

Lower Division Requirements

- MUS 105 - Introduction to Commercial Music Studies
- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 217 - Critical Listening for Music Production
- MUS 236 - Music Entrepreneurship
- MUS 246 - Music Marketing
- MUS 282 - Music Technology
- PHY 125 - Physics of Sound and Music
- PHY 125L - Physics of Sound and Music Lab

Upper Division Requirements

- MUS 301 - Survey of Music History
- MUS 306 - History of Popular Music
- MUS 308 - History of Jazz
- MUS 326 - Commercial Arranging I
- MUS 337 - Audio Signal Processing
- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 360 - Theology, History, and Practice of Worship
- MUS 366 - Live Sound Techniques and Applications
- MUS 367 - Contemporary Trends in Music Engineering
- MUS 377 - Post Production and Editing
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II
- MUS 396 - Lighting Techniques and Applications
- MUS 397 - Studio Production Project I
- MUS 477 - Audio Mastering
- MUS 487 - Sound Design for Film and Multimedia
- MUS 496 - Internship
- MUS 497 - Studio Production Project II

Vocal Performance, BM

Traditional Major Program Requirements (88-90 units)

The Bachelor of Music in Vocal Performance at CBU prepares students with the fundamental musical skills, technical competencies, stylistic range, and artistic cultivation to successfully pursue a career in vocal performance. Highlights of the program include strong theoretical and musicianship training, thorough studies in music history and vocal literature, pedagogical coaching in a variety of stylistic genres, and rigorous performance instruction, including private study with CBU faculty and consistent engagement with professional performers through residencies and masterclasses. Students in the program will also be required to actively perform throughout their tenure in a diverse cross-section of styles and settings. These performances will include numerous individual solo performances, two capstone recital presentations, and collaborative performances ranging from traditional choral ensembles to modern vocal jazz, from early chamber music to theatrical genres such and opera and musical theater.

General Education Requirements (40-55 units)

The General Education requirements will follow the curriculum set forth for other University degree programs. Twelve (12) units of G.E. requirements will be met through the specific coursework of the Vocal Performance major. See School of Music Handbook for details.

Core Applied Music Requirements

- MUS 012 - Class Piano I *
- MUS 022 - Class Piano II *
- MUS 050 - Performance Forum [1]
- MUS___ - Private Instruction (8 units minimum**)[2]
- MUS___ - Major Ensemble (8 units minimum)[3]

Note

*Enrollment in Class Piano (MUS 012 or 022) is required of music majors whose primary instrument is other than piano each semester until the Piano Proficiency requirements are met. An opportunity to attempt to pass the Piano Proficiency exam for first semester students will be offered during rehearsal camp. For returning students, an attempt to pass the exam or portions of the exam will be offered at the end of each semester. See Music Handbook for Piano Proficiency requirements.

**Students must complete eight (8) units of Private Instruction on the same instrument or voice.

---

[1]Enrollment in MUS 050 - Performance Forum is required for each semester in residence of all music majors.

[2]Enrollment for one unit of MUS 080-089, 460-469 Private Instruction is required for each semester of residence for all music majors. A minimum of eight (8) units is required.

[3]Enrollment is required in at least one Major Ensemble (MUS 067, MUS 068, 091, 092, 094, 097, 099, 490A, 490B, 490C, 490D, 490E, 490F, 490H) for full credit during each semester of enrollment at California Baptist University. A minimum of eight (8) units is required. Additional ensembles may be taken for 0-1 units.

Core Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 124 - Music Theory II
- MUS 125 - Musicianship Lab II
- MUS 202 - Music in Global Cultures
- MUS 214 - Music Theory III
- MUS 215 - Musicianship Lab III
- MUS 224 - Music Theory IV
- MUS 225 - Musicianship Lab IV
- MUS 282 - Music Technology

Core Upper Division Requirements

- MUS 312 - Introduction to Conducting
- MUS 313 - Music History I
- MUS 323 - Music History II
- MUS 324 - Music History III
- MUS 325 - Music History IV
- MUS 360 - Theology, History, and Practice of Worship
- MUS 431 - Senior Recital and Project

Vocal Performance Major Requirements

Private Instruction Requirements

- MUS 461 - Private Instruction: Voice (8 units)

Ensemble Requirements

Core Ensemble Requirements

- MUS 093 - Chamber Singers (2 units)

Additional Ensemble Requirements

Complete six (6) additional units from the following:

- MUS 068 - Camerata
- MUS 090 - University Choir and Orchestra
- MUS 091 - Magnolia Singers
- MUS 092 - Lancer Chorus
- MUS 093 - Chamber Singers
- MUS 094 - Rhapsody
- MUS 489 - University Choir and Orchestra
- MUS 490B - Major Ensemble: Camerata
- MUS 490C - Major Ensemble: Magnolia Singers
- MUS 490D - Major Ensemble: Lancer Chorus
- MUS 490E - Major Ensemble: Rhapsody
- MUS 491H - Chamber Ensemble: Chamber Singers

Upper Division Requirements

- MUS 333 - Song Literature
- MUS 417 - Vocal Pedagogy
- MUS 423 - Vocal Repertory Lab
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II

Additional Requirements

Students must complete twelve (12) units of additional upper division music electives

OR

Complete one of the concentrations: Jazz Studies; Keyboard Collaborative Arts; Live Music Production (MD); Piano Pedagogy; Songwriting; Studio Production; Worship Arts; Worship Tech

Jazz Studies

- MUS 308 - History of Jazz
- MUS 408 - Jazz Pedagogy
- MUS 491E - Chamber Ensemble: Jazz Combo (3 units)
- MUS 491F - Chamber Ensemble: Jazz Ensemble (4 units)

Keyboard Collaborative Arts

- MUS 346 - Repertoire for Accompanists
- MUS 376 - Performance Styles for Accompanists
- MUS 427 - Diction for Singers I
- MUS 428 - Diction for Singers II

- MUS 444 - Vocal Techniques
- MUS 469 - Private Instruction: Accompanying (4 units)

Live Music Production (MD)

- MUS 326 - Commercial Arranging I
- MUS 336 - Commercial Arranging II
- MUS 366 - Live Sound Techniques and Applications
- MUS 370 - Worship Technology **OR**
- APT 482 - Pastoral Leadership
- MUS 412 - Instrumental Conducting **OR**
- MUS 413 - Choral Conducting

Piano Pedagogy

- MUS 405 - Introduction to Music Education
- MUS 418 - Piano Pedagogy I
- MUS 438 - Piano Pedagogy II
- MUS 450 - Observations and Practicum in Teaching Methods (2 units)
- MUS 475 - General Music Methods

Songwriting

Core Songwriting Requirement

- MUS 355 - Private Lessons in Songwriting (6 units)

Additional Songwriting Requirements

Complete six (6) additional units from the following:

- MUS 305 - Survey of Popular Song
- MUS 326 - Commercial Arranging I
- MUS 347 - Music Production I
- MUS 355 - Private Lessons in Songwriting (1 unit)
- MUS 364 - Songwriting and Commercial Production

Studio Production

- MUS 347 - Music Production I
- MUS 357 - Music Production II
- MUS 386 - Audio Recording and Studio Techniques I
- MUS 387 - Audio Recording and Studio Techniques II

Worship Arts

- MUS 304 - Craft of Ministry I
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 370 - Worship Technology **OR**
- CST 370 - The Christian Faith

- MUS 434 - Creative Worship Planning
- MUS 454 - Worship Forum (2 units)

Worship Tech

- GDM 341 - Video Fundamentals
- MUS 347 - Music Production I
- MUS 366 - Live Sound Techniques and Applications
- MUS 396 - Lighting Techniques and Applications

Music Minor

Traditional Minor Program Requirements (24 units)

Performance Forum Requirement

- MUS 050 - Performance Forum (4 semesters)

Lower Division Requirements

Lower Division Private Instruction Requirements

Complete two (2) units from the following:

- MUS 080 - Private Instruction
- MUS 081 - Private Instruction: Voice
- MUS 082 - Private Instruction: Piano
- MUS 083 - Private Instruction: Organ
- MUS 084 - Private Instruction: Woodwinds
- MUS 085 - Private Instruction: Brass
- MUS 086 - Private Instruction: Strings
- MUS 087 - Private Instruction: Percussion
- MUS 088 - Private Instruction: Guitar

Ensemble Requirements

Complete four (4) units from the following:

- MUS 067 - Symphonic Band
- MUS 068 - Camerata
- MUS 090 - University Choir and Orchestra
- MUS 091 - Magnolia Singers
- MUS 092 - Lancer Chorus
- MUS 093 - Chamber Singers
- MUS 094 - Rhapsody
- MUS 095 - Chamber Ensemble
- MUS 096 - Jazz Ensemble
- MUS 097 - Wind Ensemble
- MUS 099 - Symphony Orchestra

Lower Division Course Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 282 - Music Technology

Upper Division Requirements

Upper Division Private Instruction Requirements

Complete two (2) units from the following:

- MUS 460 - Private Instruction
- MUS 461 - Private Instruction: Voice
- MUS 462 - Private Instruction: Piano
- MUS 463 - Private Instruction: Organ
- MUS 464 - Private Instruction: Woodwinds
- MUS 465 - Private Instruction: Brass
- MUS 466 - Private Instruction: Strings
- MUS 467 - Private Instruction: Percussion
- MUS 468 - Private Instruction: Guitar

Upper Division Course Requirement

- MUS 301 - Survey of Music History

Upper Division Electives

Complete seven (7) units from the following:

- MUS 308 - History of Jazz
- MUS 316 - Opera Theater Workshop
- MUS 332 - Psalms, Hymns, and Spiritual Songs
- MUS 360 - Theology, History, and Practice of Worship
- MUS 364 - Songwriting and Commercial Production
- MUS 434 - Creative Worship Planning
- MUS 460-468 Private Instruction (1-2 units)

Worship Arts and Ministry Minor

Traditional Minor Program Requirements (23 units)

This minor is designed to equip future worship leaders with musical, presentational, technical, organizational, and pastoral skills essential for the facilitation of worship ministry in the modern evangelical church.

Applied Music Requirements

- MUS 081 - Private Instruction: Voice (1 unit)
- MUS 461 - Private Instruction: Voice (1 unit)

- MUS 054 - Worship Forum (1 unit)
- MUS 454 - Worship Forum (1 unit)

Two-Semester Sequence Applied Music Requirement

Complete a two-semester sequence from the following:

- MUS 082 - Private Instruction: Piano (1 unit)
- MUS 462 - Private Instruction: Piano (1 unit)
  OR
- MUS 088 - Private Instruction: Guitar (1 unit)
- MUS 468 - Private Instruction: Guitar (1 unit)

Lower Division Requirements

- MUS 114 - Music Theory I
- MUS 115 - Musicianship Lab I
- MUS 120 - Introduction to Music Ministry

Upper Division Requirements

- MUS 304 - Craft of Ministry I
- MUS 360 - Theology, History, and Practice of Worship
- MUS 370 - Worship Technology

Christian Studies Requirement

Complete three (3) units from the following:

- CST 350 - Biblical Interpretation
- CST 360 - Church History
- CST 370 - The Christian Faith

University Programs

Honors Program

The California Baptist University Honors Program offers students a unique and excellent academic experience. In a series of special seminars totaling 18 units of academic credit, Honors Program students encounter the seminal, powerful ideas and perspectives that shape our culture and our world. Thematically linked, these seminars emphasize a close reading and thorough discussion of classic texts, and are interdisciplinary, integrative, and holistic in vision. Ultimately, the program has been designed to assist students in developing an intellectually informed Christian world view. Class enrollment is purposely restricted to provide individual attention to the Honors Program student members.

A student should seek admission to the CBU Honors Program during the freshman year or first semester of the sophomore year by filing an Honors Program Application and writing sample with the Dean of the College of Arts and Sciences. Admission to the Program requires application separate from regular CBU admission application.

The Honors Program admission committee will review the student's overall academic record for predictors of success in this intensive seminar series. The committee will approve students who write a strong essay and have either have an SAT score of 1290 (ACT 27 or higher) and a cumulative grade point average of 3.5 or higher. The committee may consider students with a test score above 1230 or cumulative grade point average of 3.2, and may request a personal interview as part of the decision process.

Satisfactory completion of the Honors Program requires (for four-year students) satisfactory completion of 18 units of Honors Program seminars while maintaining an overall academic GPA of at least 3.5. Transfer students coming to CBU with 60 or more semester units of college credit need only complete 14 units of Honors Program seminars, with at least a 3.5 overall GPA.

Students who satisfactorily complete the Honors Program are entitled to claim this distinction on their résumés. Their achievement will be recorded on their official CBU transcript and diploma, and will be acknowledged in the Commencement program and ceremony.

For more information contact the School of Christian Ministries at 951.343.4248, or e-mail honors@calbaptist.edu.

Reserve Officer Training Corps (ROTC) Program

California Baptist University offers a Military Science and Leadership Army Reserve Officer Training Corps (ROTC) program on campus and an Air Force ROTC program through concurrent enrollment at California State University, San Bernardino. For more information about the Military Science and Leadership Army ROTC Program contact the Assistant Professor of Military Science at 951.343.4773 or e-mail ROTC@calbaptist.edu. For more information about the Air Force ROTC program contact the CSUSB Aerospace Studies Department at 909.880.5440. Students interested in concurrent enrollment should contact the Office of the University Registrar at CBU.

Single Subject Matter Competency Programs

California Baptist University offers a selection of subject matter competency programs for those who wish to pursue teaching credentials in single subject areas. Students planning to teach in California will need to demonstrate subject matter competency either by successfully completing the state approved subject matter program or by passing the California Subject Examination for Teachers (CSET). *Note: state regulations concerning test requirements are subject to change and supersede CBU catalog information.

For information on approved and pending subject matter competency programs, please see the following faculty for guidance:

English

Math

Music

Science

Social Science

Spanish

Air Force ROTC Program

Traditional University Program Requirements

The Air Force Reserve Officer Training Corps (AFROTC) at California State University, San Bernardino is a program designed to commission college students as second lieutenants in the active duty Air Force. Students are required to graduate with a bachelor's degree, in any academic major, and complete one of the two program options.

Program Requirements are provided from the California State University, San Bernardino University Catalog. Student will be required to complete the requirements set forth by CSUSB for program completion.

Option 1: Four Year Program

The four-year program is available to students with three to four years of undergraduate/graduate study remaining. Entry into the program requires University course enrollment and consultation with the AFROTC admissions officer in the Aerospace Studies Department at California State University, San Bernardino. The program consists of three parts: General Military Course (academics and laboratory), Field Training, and the Professional Officer Course (academics and laboratory).

General Military Courses (GMC)

- AIR 090 - Leadership Laboratory (required every term)
- AIR 101 - The Air Force Today I
- AIR 102 - The Air Force Today II
- AIR 103 - The Air Force Today III
- AIR 201 - The Development of Air Power I
- AIR 202 - The Development of Air Power II
- AIR 203 - The Development of Air Power III

Field Training

A four-week, non-credit course conducted at an Air Force base during the summer between the second and third years of the program. Successful completion is required before continuing in the program.

Professional Officer Courses (POC)

- AIR 090 - Leadership Laboratory
- AIR 301 - Air Force Leadership and Management I
- AIR 302 - Air Force Leadership and Management II
- AIR 303 - Air Force Leadership and Management III
- AIR 401 - National Security Forces in Contemporary American Society I
- AIR 402 - National Security Forces in Contemporary American Society II

- AIR 403 - National Security Forces in Contemporary American Society III

Option 2: Two Year Program

Application for the two year program is made in the fall and winter quarters at CSUSB for Field Training attendance during the summer, and prior to entry into the POC. Field Training selection is based on number of highly competitive criteria. For an application and selection criteria contact the Aerospace Studies Department at CSUSB. The two year program is available to students with two years of undergraduate/graduate study remaining. The program consists of two parts: Field Training and the Professional Officer Course (academics and laboratory).

Field Training

Prerequisite for entry in the two year program. A five week, non-credit course conducted at an Air Force base during the summer before entry into the Professional Officer Course. Successful completion is required before continuing in the program.

Professional Officer Courses (POC)

- AIR 090 - Leadership Laboratory (required every term)
- AIR 301 - Air Force Leadership and Management I
- AIR 302 - Air Force Leadership and Management II
- AIR 303 - Air Force Leadership and Management III
- AIR 401 - National Security Forces in Contemporary American Society I
- AIR 402 - National Security Forces in Contemporary American Society II
- AIR 403 - National Security Forces in Contemporary American Society III

Honors Program

Traditional Honors Program Requirements (18 units)

The University Honors Program offers students from all major areas of study the opportunity to participate in rigorous study through 18 units of intensive seminars. These seminars, interdisciplinary in nature and incorporating serious consideration of the implications of Christian worldview, require diligent reading of primary sources and writing of original essays. Taught by leading faculty from across the university, these seminars lead students in careful study of and reflection on important themes in (primarily) Western Civilization that are key to understanding contemporary culture. [See full program description in the Colleges, Schools, and University Programs section.]

Lower Division Requirements

*Transfer students who matriculate with junior status and are accepted into the honors program may be eligible to complete HON 399 to fulfill lower division requirements.

Complete ten (10) units from the following:

- HON 100 - Honors Seminar
- HON 102 - Honors Seminar
- HON 150 - Honors Seminar
- HON 152 - Honors Seminar
- HON 200 - Honors Seminar
- HON 250 - Honors Seminar

Upper Division Requirements

Complete at least eight (8) units at the upper division level from the following:

- HON 300 - Honors Seminar
- HON 350 - Honors Seminar
- HON 352 - Honors Seminar
- HON 400 - Honors Seminar
- HON 402 - Honors Seminar
- HON 450 - Honors Seminar
- HON 452 - Honors Seminar

Intensive English Program

Admission Requirements

Intensive English Program Admission Requirements

When to Apply:

The Application and completion of the file for admission into the Intensive English Program Pre-MBA Track must be made according to the following deadlines:

Session	Deadline
Fall Semester	July 1
Spring Semester	November 1

Once all admission requirements have been met and the applicant is approved for admission, a letter of acceptance and the form I-20 will be issued.

Application Procedure:

To be considered for admission into the Intensive English Program, students must submit the following*:

1. Completion of the application for the Intensive English Program
2. Payment of the $45.00 non-refundable application fee
3. Proof of graduation from high school or GED
4. Proof of Financial Support
   International students must submit proof of financial support before an I-20 will be issued. Students must send the following items:

- A certified bank statement demonstrating sufficient funds for study. Financial support must guarantee and certify funds equal to a minimum of one year of the student's academic program
- The Sponsor's Commitment of Financial Support form, provided by California Baptist University
- International students must pay semester charges in full within the first week of classes during each semester of enrollment

*Additional requirements for specialized tracks offered through the Intensive English Program could be required, depending on the program.

Traditional University Program Requirements

Level 1

- ESL 007 - English Foundations **OR**
- ESL 008 - Pronunciation I

- GST 010 - Lifeline
- ESL 010 - Reading and Academic Vocabulary I
- ESL 011 - Writing and Grammar I
- ESL 012 - Listening and Speaking I

Level 2

- ESL 009 - Pronunciation II
- GST 010 - Lifeline
- ESL 030 - Reading and Academic Vocabulary II
- ESL 031 - Writing with Grammar II
- ESL 032 - Listening and Speaking II
- ESL 035 - Vocabulary II

Level 3

- ESL 049 - Communication Skills
- ESL 050 - Reading and Academic Vocabulary III
- ESL 051 - Writing and Grammar III
- ESL 052 - Listening and Speaking III
- ESL 054 - Preparation for University Success
- GST 010 - Lifeline

Level 4

- ESL 070 - Reading and Academic Vocabulary IV
- ESL 071 - Writing and Grammar IV
- ESL 072 - Listening and Speaking IV
- ESL 073 - Introduction to Academic Research
- ESL 074 - Academic Presentation Skills
- GST 010 - Lifeline

Intensive English Program Pre-MBA Track

Admission Requirements

Intensive English Program Pre-MBA Track Admission Requirements

When to Apply:

The Application and completion of the file for admission into the Intensive English Program Pre-MBA Track must be made according to the following deadlines:

Session	Deadline
Fall Semester	July 1

Spring Semester	November 1

Once all admission requirements have been met and the applicant is approved for admission, a letter of acceptance and the form I-20 will be issued.

Application Procedure:

To be considered for admission into the Intensive English Program's Pre-MBA track, students must submit the following:

1. Completion of the application for the Intensive English Program
2. Payment of the $45.00 non-refundable application fee
3. A Bachelor's degree from an accredited university
4. Successful completion of the Intensive English Program's Level 3 courses OR a score of 46+ on the placement test. Students with a score of 45 or lower on the placement test take traditional IEP classes until they reach the minimum requirements for admission into the Pre-MBA program
5. Proof of Financial Support
   International students must submit proof of financial support before an I-20 will be issued. Students must send the following items:

- A certified bank statement demonstrating sufficient funds for study. Financial support must guarantee and certify funds equal to a minimum of one year of the student's academic program
- The Sponsor's Commitment of Financial Support form, provided by California Baptist University
- International students must pay semester charges in full within the first week of classes during each semester of enrollment

Intensive English Program (IEP)

The Intensive English Program is a full-time, pre-academic and bridge program which fosters cross-cultural exchange by providing English as a Second Language (ESL) instruction to non-English speaking students in preparation for study at CBU. In particular, ESL takes place in a classroom setting, collaborating with International Student Services (ISS) on co-curricular activities outside of the classroom.

Further information on the Intensive English Program course progression and ESL courses can be located in the Academic Programs section of this catalog.

Traditional University Program Requirements (25 units)

The Pre-MBA track offers a pathway for students to enter the MBA program at California Baptist University by taking a combination of Intensive English courses and MBA pre-requisite courses over two semesters.

Semester 1 Requirements

- ACC 250 - Principles of Accounting I
- CIS 270 - Business IT Application
- ESL 071 - Writing and Grammar IV
- ESL 072 - Listening and Speaking IV
- GST 010 - Lifeline

Semester 2 Requirements

- BUS 315 - Business Statistics
- ESL 070 - Reading and Academic Vocabulary IV
- ESL 073 - Introduction to Academic Research

- ESL 074 - Academic Presentation Skills
- MKT 333 - Principles of Marketing

Military Science and Leadership Army ROTC Program

The Military Science and Leadership program is designed to provide an on-campus program for qualified students in all academic majors who desire to serve as an Army officer on active duty or in a local Army Reserve or Guard unit. While students may participate in either undergraduate or graduate studies, the program requires at least two years to complete. Students who have completed at least basic training in any of the armed services may be eligible to enter the advanced course directly. Other students must complete three to six of the courses in the basic course of study or complete a thirty-day Leader's Training Course (LTC) prior to entering the advanced course. All contracted ROTC students are required to participate in an off-campus leadership laboratory one weekend each semester. Scholarships are available on a competitive basis. All ROTC students receive $400-500 per month during the final two years of the program. For more information contact the CBU Military Science Office at (951) 343-4773; Lancer Arms North #37 or visit www.calbaptist.edu/armyrotc.

Option I: Four Year Program (29 units)

Basic Course of Study

- MSL 101 - Introduction to the Army and Critical Thinking
- MSL 102 - Introduction to the Profession of Arms
- MSL 201 - Leadership and Decision Making
- MSL 202 - Army Doctrine and Team Development

Advanced Course of Study

Complete twelve (12) units from the following:
*A maximum of six (6) units may be applied from MSL 399.

- MSL 301 - Training Management and the Warfighting Functions
- MSL 302 - Applied Leadership in Small Unit Operations
- MSL 399 - Independent Study *
- MSL 401 - The Army Officer
- MSL 402 - Company Grade Leadership

Leadership Laboratory

Students must be enrolled in the following course each semester they are enrolled in the ROTC Program for a total of eight (8) units:
Note: A twenty nine-days advanced camp is required between the final two years of study.

- MSL 100 - Leadership Laboratory

Additional Requirements

In addition to the ROTC curriculum, cadets must complete the following type course in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Military History

Other classes may be substituted for that listed above upon approval of the military science staff.

- MSL 451 - Seminar in Military History

Option II: Two Year Program (21 units)

Basic Course Equivalent

- MSL 260 - ROTC Basic Camp

Advanced Course of Study

Complete twelve (12) units from the following:

- MSL 301 - Training Management and the Warfighting Functions
- MSL 302 - Applied Leadership in Small Unit Operations
- MSL 401 - The Army Officer
- MSL 402 - Company Grade Leadership

Leadership Laboratory

Students must be enrolled in the following course each semester they are enrolled in the ROTC program for a total of four (4) units.

Note: A twenty nine-days advanced camp is required between the final two years of study.

- MSL 100 - Leadership Laboratory

Additional Requirements

In addition to the ROTC curriculum, cadets must complete the following type course in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.

Military History

Other classes may be substituted for that listed above upon approval of the military science staff.

- MSL 451 - Seminar in Military History

Division of Online and Professional Studies

Dr. Pamela Daly
Vice President for Online and Professional Studies

Ms. Teresa Sheets
Administrative Assistant I
Phone 951.343.3902
FAX 951.343.3952
tsheets@calbaptist.edu

Online and Professional Studies Division Contact Personnel

Dr. Dirk Davis
Associate Vice President of Academics
951.343.3905
ddavis@calbaptist.edu

Dr. Thomas Schneider
Assistant Dean of Liberal Arts and Education
951.343.3975
tschneider@calbaptist.edu

Dr. Kenneth Minesinger
Assistant Dean of Business and Government
951.343.5566
kminesinger@calbaptist.edu

Dr. Dominick Sturz
Assistant Dean of Health and Social Sciences
951.343.2192
dsturz@calbaptist.edu

Mr. Merritt Robinson
Dean of Enrollment Services
951.343.3912
merobinson@calbaptist.edu

Dr. Elisa Shepard
Director of Academic Administration
951.343.3946
eshepard@calbaptist.edu

Dr. Robert Shields
Director of Curriculum Development
951.343.2175
rshields@calbaptist.edu

Ms. Grace Brown
Senior Director of Advising and Retention, Enrollment Services
951.343.5575
gbrown@calbaptist.edu

Mr. Ron Hawkins
Director of Admissions, Enrollment Services
951.343.5230
rhawkins@calbaptist.edu

Online and Professional Studies

Online and Professional Studies

Dr. Dirk Davis
Associate Vice President of Academics

Dr. Thomas Schneider
Assistant Dean, Liberal Arts and Education

Dr. Kenneth Minesinger
Assistant Dean, Business and Government

Dr. Dominick Sturz
Assistant Dean, Health and Social Sciences

Dr. Elisa Shepard
Director of Academic Administration

Dr. Robert Shields
Director of Curriculum Development

Ms. Julianna Carrera
Administrative Assistant
Phone 951.343.3932
Fax 951.343.3953
jcarrera@calbaptist.edu

Faculty Information

Departments

Arts and Sciences	Sandra Romo, Ph.D.
Behavioral Sciences	Yvonne Thai, Ph.D.
Business	Christina Gonzalez, Ed.D.
Education and Leadership	Jeannette Guignard, Ed.D.
Health Sciences	Janet Bonome, Dr.P.H.
History and Government	Noemi Alexander, Ph.D.

The Division of Online and Professional Studies was established for the specific purpose of serving the needs of an increasing number of adults and non-traditional students seeking higher education. Online and Professional Studies (OPS) develops degree programs in fully-online and hybrid formats at both the undergraduate and graduate levels. All programs incorporate a Christian perspective, and a year-round semester system speeds students toward graduation. Approximately twenty undergraduate majors are available.

Students are required to complete at least 30 units, including 6 units of English composition (ENG 113, ENG 123), before starting the major.

Online and Professional Studies Requirements

Program requirements include coursework to complete the designated major and the Christian Studies general education requirement. To complete a degree students must complete all major, general education and overall degree requirements.

Department of Behavioral Sciences (Online)

Dr. Yvonne Thai
Department Chair

Faculty Information

Human Services, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- SOC 213 - Introduction to Sociology

Lower Division Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- HMS 100 - Introduction to Human Services
- HMS 213 - Theories of Human Services

Upper Division Requirements

- HMS 310 - Diversity and Social Justice
- HMS 320 - Ethics and Legal Implications of Human Services
- HMS 330 - Context of Human Social Behavior
- HMS 340 - Case Management and Assessment in Human Services
- HMS 415 - Family Violence and Mandated Reporting
- HMS 420 - Crisis Intervention
- PSY 346 - Abnormal Psychology
- SOC 323 - Marriage and the Family
- SOC 335 - Social Problems
- SOC 352 - Sociology of Health and Illness

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Psychology, BA (Online)

Online Major Program Requirements (50 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- PSY 213 - General Psychology

Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II
- BEH 480 - Capstone

Upper Division Requirements

- PSY 301 - History and Systems of Psychology
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 325 - Tests and Measurements
- PSY 328 - Cognitive Psychology
- PSY 346 - Abnormal Psychology
- PSY 422 - Theories of Counseling
- PSY 473 - Psychophysiology

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Sociology, BA (Online)

Online Major Program Requirements (50 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- SOC 213 - Introduction to Sociology

Methodology Requirements (17 Units)

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods
- BEH 333 - Epistemology and Worldview
- BEH 383 - Statistics and Research Methodology I
- BEH 385 - Statistics and Research Methodology II

Core Upper Division Requirements (15 Units)

- SOC 335 - Social Problems
- SOC 337 - Deviant Behavior
- SOC 345 - Race and Ethnicity
- SOC 347 - Sociology of Gender
- SOC 381 - Social Theory

Concentration Courses

Collective Behavior

- SOC 323 - Marriage and the Family
- SOC 338 - Group Dynamics and Social Movements
- SOC 301 - Self and Society
- SOC 352 - Sociology of Health and Illness

Additional Program Courses (6 Units)

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Department of Business (Online)

Dr. Christina Gonzalez
Department Chair

Faculty Information

Accounting, BS (Online)

Online Major Program Requirements (72 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- BUS 218 - Macroeconomics
- CIS 270 - Business IT Application

Upper Division Business Requirements

- BUS 237 - Management Based on Biblical Principles **OR**
- BUS 337 - Management with Biblical Foundation (meets Upper Division CST requirement)

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

Upper Division Accounting Requirements

- ACC 310 - Intermediate Accounting I
- ACC 311 - Intermediate Accounting II
- ACC 320 - Cost Accounting
- ACC 330 - Governmental and Non-profit Accounting
- ACC 410 - Advanced Accounting
- ACC 420 - Accounting Information Systems
- ACC 430 - Federal Income Tax Accounting
- ACC 470 - Auditing

- ACC 480 - Accounting Ethics

Additional Program Courses

- CST 100 - Overview of the Bible

Business Administration, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- BUS 218 - Macroeconomics
- CIS 270 - Business IT Application
- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics

Upper Division Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 337 - Management with Biblical Foundation (meets Upper Division CST requirement)
- BUS 358 - Business Law
- BUS 440 - Quantitative Business Analysis
- BUS 463 - Business and Organizational Management
- BUS 485 - Business Policy and Strategy
- MKT 333 - Principles of Marketing

Concentration Courses (12 units)

Students must complete one of the following concentrations: Logistics and Operations; Management

Logistics and Operations

- BUS 341 - Operations Management
- BUS 352 - Global Supply Chain Management
- BUS 452 - Logistics Planning and Controlling
- BUS 475 - Project and Team Management

Management

- BUS 334 - International Business
- BUS 343 - Human Resource Management
- BUS 349 - Communication Strategy in Management
- LDR 430 - Decision Making and Leadership

Additional Program Courses

- CST 100 - Overview of the Bible

Computer Information Technology, BS (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

Lower Division Requirements

- EGR 121 - Introduction to Computer Programming in C++
- EGR 221 - Data Structures

Upper Division Requirements

- CIT 320 - Enterprise Architecture
- CIT 330 - Project Management
- CIT 340 - System Analysis and Design
- CIT 350 - Foundations of Information Systems
- CIT 360 - Legal and Ethical Practices in Information Technology
- CIT 370 - Database Design and Processing
- CIT 380 - Computer and Network Security
- CIT 440 - Web Application Development
- CIT 450 - E-Commerce Systems Development
- CIT 460 - Business Networking
- CIT 465 - Advanced Business Networking
- CIT 470 - Information Processing Systems

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Cybersecurity, BS (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- CIS 265 - Information Systems Essentials **OR**
- CIS 270 - Business IT Application
- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- STA 144 - Introduction to Statistics

Lower Division Requirements

- CYB 220 - Security by Design
- EGR 121 - Introduction to Computer Programming in C++

Upper Division Requirements

- CIT 360 - Legal and Ethical Practices in Information Technology
- CIT 380 - Computer and Network Security
- CIT 460 - Business Networking
- CYB 390 - Database Security
- CYB 410 - Defensive Security
- CYB 420 - Offensive Security
- CYB 430 - Computer Forensics
- CYB 440 - Cybersecurity Management
- CYB 470 - Network Defense
- CYB 480 - Essential Tenets of Cybersecurity
- CYB 495 - Cybersecurity Capstone
- NAM 320 - Computer and Operating Systems Architecture

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Marketing, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- BUS 218 - Macroeconomics
- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

Lower Division Requirements

- ACC 250 - Principles of Accounting I

- ACC 251 - Principles of Accounting II
- BUS 217 - Microeconomics
- CIS 270 - Business IT Application

Upper Division Requirements

- BUS 303 - Business Finance
- BUS 315 - Business Statistics
- BUS 334 - International Business
- BUS 337 - Management with Biblical Foundation (meets Upper Division CST requirement)
- BUS 358 - Business Law
- MKT 313 - Retailing and Merchandising
- MKT 323 - Marketing Research
- MKT 333 - Principles of Marketing
- MKT 353 - Integrated Marketing Communications
- MKT 458 - Consumer Behavior
- MKT 463 - Marketing Management

Additional Program Courses

- CST 100 - Overview of the Bible

Department of Education and Leadership (Online)

Dr. Jeannette Guignard
Department Chair

Faculty Information

Early Childhood Studies, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- Fingerprinting and Certificate of Clearance

Upper Division Requirements

- ECH 320 - Cognitive Development in Infancy and Early Childhood
- ECH 340 - Perceptual-Motor Development in Infancy and Early Childhood
- ECH 350 - Social and Emotional Development in Infancy and Early Childhood
- ECH 365 - Assessment of Young Children including Children with Disabilities
- ECH 370 - Spiritual Development in Young Children
- ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities
- ECH 395 - Learning Environments for Young Children including Children with Disabilities
- ECH 415 - Consultation and Collaboration in Early Childhood Intervention
- ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities

- ECH 440 - STEM Curriculum Integrated with the Arts *OR*
- ECH 360 - Early Childhood Curriculum

- ECH 455 - Research Seminar in Early Childhood including Early Childhood Intervention
- ECH 460 - Adult Supervision
- ECH 461 - Administration of Early Childhood Programs I
- ECH 462 - Administration of Early Childhood Programs II

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Liberal Studies, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- Fingerprinting and Certificate of Clearance

Lower Division Requirements

- HUM 213 - Humanities I **OR**
- HUM 223 - Humanities II

Upper Division Requirements

- COM 333 - Oral Interpretation and Readers Theatre
- EDU 300 - American Public School
- EDU 302 - Growth, Development, and Learning

- ENG 353 - Introduction to Children's Literature **OR**
- ENG 363 - Introduction to Young Adult Literature

- ENG 463 - Language Structure and Acquisition
- KIN 302 - Contemporary Health Issues
- HIS 311 - Minorities in America
- HIS 393 - History of California
- POL 415 - World Geography

Concentration Courses

Students must complete one of the following concentrations: English; Human Development/Early Childhood; Kinesiology; Social Science

English

- ENG 303 - Topics in World Literature
- ENG 313 - American Multicultural Literature

- ENG 333 - Seventeenth Century British Literature **OR**
- ENG 343 - Eighteenth and Nineteenth Century British Literature **OR**
- ENG 345 - Nineteenth Century American Literature

- ENG 413 - Shakespeare Studies

Human Development/Early Childhood

- ECH 320 - Cognitive Development in Infancy and Early Childhood
- ECH 340 - Perceptual-Motor Development in Infancy and Early Childhood
- ECH 350 - Social and Emotional Development in Infancy and Early Childhood
- EDU 341 - The Exceptional Child

Kinesiology

- KIN 300 - Nutrition Science
- KIN 332 - Lifelong Motor Development
- KIN 363 - Movement Experiences for Children
- KIN 454 - Behavioral Aspects of Sport

Social Science

- HIS 315 - Latin American History
- HIS 325 - Non-Western Culture and History
- POL 443 - Diplomatic History of the United States
- Three (3) additional upper division units in POL or HIS

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

For students seeking a Teaching Credential

The Bachelor of Arts in Liberal Studies at California Baptist University offers a pathway for students seeking entrance to a teaching credential program in California through successful completion of a subject matter competence exam. Students should seek additional information from the credentialing agency in their state to determine specific requirements for a teaching credential.

Organizational Leadership, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Upper Division Requirements

- BUS 343 - Human Resource Management
- BUS 463 - Business and Organizational Management
- BUS 475 - Project and Team Management
- COM 308 - Interpersonal Communications
- COM 340 - Rhetoric and Persuasion
- LDR 310 - Leadership Theory
- LDR 330 - Personal Leadership
- LDR 350 - Communication Principles for Leadership
- LDR 410 - Ethical and Biblical Principles for Leadership
- LDR 430 - Decision Making and Leadership
- LDR 450 - Culture and Leadership
- LDR 470 - Group and Leadership
- PAD 452 - Organizational Theory and Design
- PST 300 - Career and Professional Development

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Department of Health Sciences (Online)

Dr. Janet Bonome
Department Chair

Faculty Information

Healthcare Administration and Management, BS (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Lower Division Requirements

- ACC 250 - Principles of Accounting I
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care

Upper Division Requirements

- BUS 337 - Management with Biblical Foundation (meets upper division CST requirement)
- BUS 343 - Human Resource Management
- BUS 463 - Business and Organizational Management
- COM 425 - Organizational Communication
- HCA 330 - Health Information Systems
- HCA 360 - Finance and Reimbursement in Healthcare
- HCA 405 - Quality Management in Healthcare
- HSC 306 - Pathophysiology for Public Health
- HSC 316 - Public Health Promotion, Disease Prevention and Intervention
- HSC 420 - Health Care Policy
- LDR 310 - Leadership Theory
- MKT 333 - Principles of Marketing

Additional Program Course

- CST 100 - Overview of the Bible

Kinesiology, BS (Online)

Online Major Program Requirements (50 units)

Prerequisites to Program

- ENG 113 - Composition

- ENG 123 - Intermediate Composition

Lower Division Requirements (11 units)

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab
- KIN 212 - First Aid and Safety
- KIN 264 - Movement Anatomy
- KIN 274 - Applied Movement Anatomy

Upper Division Kinesiology Requirements (21 units)

- KIN 302 - Contemporary Health Issues
- KIN 303 - Foundations of Kinesiology
- KIN 332 - Lifelong Motor Development
- KIN 353 - Care and Prevention of Athletic Injuries
- KIN 383 - Exercise Physiology
- KIN 454 - Behavioral Aspects of Sport
- KIN 473 - Research Methods and Evaluation in Kinesiology

Upper Division Elective Requirements

Complete twelve (12) units from the following:

- KIN 300 - Nutrition Science
- KIN 363 - Movement Experiences for Children
- KIN 393 - Applied Exercise Physiology
- KIN 404 - Movement Experiences for Middle School Students
- KIN 414 - Methods of Teaching Sport Activities
- KIN 423 - Organizations and Administration of Physical Education
- KIN 480 - Fitness Assessments and Exercise Prescription
- KIN 490 - Principles of Conditioning Athletes

Additional Program Courses (6 units)

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies

Public Health, BS (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra
- PSY 213 - General Psychology

- Biology course (BIO 143 or higher)
- Chemistry course (CHE 102 or higher)
- Biology or Chemistry Lab (1 unit)

Lower Division Requirements

- HSC 101 - Introduction to Public Health
- HSC 104 - Survey of U.S. Health Care Delivery
- HSC 210 - Ethics in Health Care
- STA 144 - Introduction to Statistics

Upper Division Requirements

- HSC 301 - Principles of Health Education
- HSC 305 - Epidemiology
- HSC 306 - Pathophysiology for Public Health
- HSC 312 - Principles of Environmental and Occupational Health
- HSC 316 - Public Health Promotion, Disease Prevention and Intervention
- HSC 320 - Public Health Nutrition and Physical Activity
- HSC 450 - Curriculum Design in Health Education
- HSC 460 - Planning and Evaluating Health Education Programs
- HSC 480 - Research Methods
- KIN 302 - Contemporary Health Issues

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Sport and Performance Psychology, BS (Online)

Online Major Program Requirements (49 units)

Prerequisites

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

Methodology Requirements

- BEH 250 - Reading and Writing in the Behavioral Sciences
- BEH 290 - Introduction to Research Methods

Lower Division Requirements

- BIO 153 - Anatomy and Physiology I
- BIO 153L - Anatomy and Physiology I Lab

- PSY 213 - General Psychology

Upper Division Requirements

- KIN 383 - Exercise Physiology
- KIN 454 - Behavioral Aspects of Sport
- PSY 320 - Life-Span Development
- PSY 322 - Theories of Personality
- PSY 328 - Cognitive Psychology
- PSY 422 - Theories of Counseling
- SPP 410 - Psychology of Performance Recovery
- SPP 420 - Social Implications of Sport and Performance
- SPP 430 - Ethics and Leadership in Performance Psychology
- SPP 499 - Sport and Performance Psychology Capstone

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Department of History and Government (Online)

Dr. Noemi Alexander
Department Chair

Faculty Information

Criminal Justice, BS (Online)

Online Major Program Requirements (45-48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition
- MAT 115 - Intermediate Algebra

Lower Division Requirements

*Active duty law enforcement may be eligible for CJS 113 exemption

- CJS 113 - Introduction to Criminal Justice *
- POL 213 - American Government
- POL 223 - State and Local Government

Upper Division Requirements

- CJS 341 - Minorities and the Criminal Justice System
- CJS 401 - Crime and Delinquency
- CJS 485 - Methods of Research for Criminal Justice
- POL 485 - Constitutional Law II

Concentration Courses

Law Enforcement and Homeland Security

- CJS 304 - Ethics for Law Enforcement
- CJS 350 - Emergency Management
- CJS 355 - Information Management
- CJS 360 - Historical Perspectives of Criminal Justice
- CJS 472 - Terrorism and Homeland Security
- CJS 497 - Comparative Criminal Justice
- PAD 493 - Principles of Public Administration

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Public Administration, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Lower Division Requirements

- POL 213 - American Government
- POL 223 - State and Local Government
- POL 255 - Introduction to Comparative Politics

Upper Division Requirements

- PAD 451 - Executive Leadership and Management
- PAD 452 - Organizational Theory and Design
- PAD 453 - Administrative Law and Bureaucracy
- PAD 490 - Contemporary Issues in Public Administration
- PAD 491 - Public Personnel Management
- PAD 493 - Principles of Public Administration
- POL 395 - Political Economy
- POL 450 - Research Methods in Political Science
- PAD 465 - Policy Process and Analysis
- POL 485 - Constitutional Law II
- PST 300 - Career and Professional Development

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Department of Arts and Sciences (Online)

Dr. Sandra Romo
Department Chair

Faculty Information

Christian Studies, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Lower Division Requirements

- CST 210 - Pentateuch and Former Prophets
- CST 220 - Latter Prophets and Writings
- CST 230 - Jesus and the Gospels
- CST 240 - Paul and the Early Church

Upper Division Requirements

- APT 371 - Christian Theology I
- APT 372 - Christian Theology II
- CST 300 - History of Baptist Thought
- CST 350 - Biblical Interpretation
- CST 360 - Church History

Upper Division Biblical Studies Requirement

- CST 460 - Biblical Theology

Upper Division Elective Requirement

- PHI 353 - Comparative Religions

Concentration Courses

Christian Ministry

- APT 482 - Pastoral Leadership
- CST 381 - Christian Missions
- CST 425 - Christian Social Ethics
- CST 451 - Biblical Preaching

- CST 480 - Pastoral Ministry and Leadership

English, BA (Online)

Online Major Program Requirements (49 units)

English majors actively engage with literature from classical to contemporary authors. The program cultivates close analysis of literary texts and relevant contexts as well as develops students' skills and mindful interpretation through the study and application of literary theory. The English major prepare students for careers in a wide range of professions and ministries including secondary education; writing, editing, and publishing; commerce, industry, and government; and graduate study. Students interested in the English Subject Matter Competence should contact the program adviser. English majors are encouraged to consult and collaborate with program instructors to develop the best approach to their studies.

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Introductory Concepts and Approaches

- ENG 100 - Introduction to Technology in Literary Studies
- ENG 201 - Introduction to Literature
- ENG 213 - British Literature Pre-1750 **OR**
- ENG 223 - British Literature Post-1750
- ENG 233 - American Literature Pre-1865 **OR**
- ENG 243 - American Literature Post-1865
- ENG 273 - Introduction to Creative Writing

Foundations in Literary Studies and Traditions

- ENG 401 - Literary Theory and Criticism
- ENG 413 - Shakespeare Studies

Professional Development

- ENG 350 - Research and Writing in Literature and Language
- ENG 463 - Language Structure and Acquisition
- ENG 499 - Capstone Project

American Literature

- ENG 440 - Modern American Literature

British Literature

- ENG 343 - Eighteenth and Nineteenth Century British Literature

Diverse Perspectives

- ENG 313 - American Multicultural Literature

Christian Literary Studies

- ENG 365 - Christian Classics

Elective Requirements

Complete three (3) additional units from the following, which have not previously been taken:

- ENG 353 - Introduction to Children's Literature
- ENG 360 - Detective Fiction
- ENG 363 - Introduction to Young Adult Literature
- ENG 366 - Faith and Literature

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Graphic Design and Digital Media, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ART 204 - Drawing I
- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Lower Division Requirements

- GDM 110 - Fundamental Design
- GDM 120 - Fundamental Typography
- GDM 130 - Fundamental Image
- GDM 140 - Fundamental Web

Upper Division Requirements

- GDM 305 - History of Graphic Design
- GDM 310 - Intermediate Design
- GDM 320 - Intermediate Typography
- GDM 330 - Intermediate Image
- GDM 340 - Intermediate Web
- GDM 410 - Advanced Design
- GDM 420 - Advanced Typography
- GDM 430 - Advanced Image
- GDM 440 - Advanced Web

- GDM 499 - Senior Project

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Interdisciplinary Studies, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Upper Division Requirements

- LDR 330 - Personal Leadership
- IDS 498 - Interdisciplinary Studies Capstone
  Areas of Emphasis I*:
- Four (4) courses
- Minimum of twelve (12) units, nine (9) of which must be upper division
  Areas of Emphasis II*:
- Four (4) courses
- Minimum of twelve (12) units, nine (9) of which must be upper division
  Areas of Emphasis III*:
- Four (4) courses
- Minimum of twelve (12) units, nine (9) of which must be upper division
  *Students may choose only two areas of emphases by completing the following for each emphasis:
- six (6) courses
- Minimum of eighteen (18) units, twelve (12) of which must be upper division

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Areas of Emphasis

Students may choose areas of emphasis in each of the following areas:

- Accounting (ACC)
- Business Administration (minimum 9 units of BUS, additional units can be taken from ACC and MKT)
- Christian Ministries (APT, CST, ICS)
- Communication Studies (COM, JRN, PRL)
- Computer Information Technology (CIT)
- Criminal Justice (CJS)
- Early Childhood Studies (ECS)

- English (ENG)
- Graphic Design and Digital Media (GDM)
- Healthcare Administration and Management (minimum 9 units of HCA, additional units can be taken from HSC)
- History (HIS)
- Kinesiology (KIN)
- Marketing (MKT)
- Organizational Leadership (LDR)
- Psychology (PSY)
- Political Science (POL)
- Public Health (HSC)
- Sociology (SOC)

Strategic Communication, BA (Online)

Online Major Program Requirements (48 units)

Prerequisites to Program

- ENG 113 - Composition
- ENG 123 - Intermediate Composition

Lower Division Requirements

- COM 113 - Oral Communication
- COM 250 - Introduction to Communication Studies
- JRN 150 - Media and Society

Upper Division Requirements

- COM 308 - Interpersonal Communications
- COM 340 - Rhetoric and Persuasion
- COM 375 - Legal, Ethical, and Social Foundations of Communication
- COM 403 - Communication Theory
- COM 420 - Strategic Communication and Global Engagement
- COM 425 - Organizational Communication
- COM 430 - Communication Research and Methods
- COM 440 - Digital Trends in Communication
- COM 499 - Communication Senior Capstone
- PRL 300 - Public Relations
- PRL 402 - Public Relations Research and Campaigns

Additional Program Courses

- CST 100 - Overview of the Bible
- CST 300-400 Upper Division Christian Studies (3 units)

Course Descriptions

ACC 250 - Principles of Accounting I

Units: 3
When Offered: Fall, Spring, & OPS
An introduction to financial accounting, involving its basic structure, the accounting cycles for service and merchandising enterprises, assets, liabilities, and accounting systems.
Grade Type: Letter Grade

ACC 251 - Principles of Accounting II

Units: 3
When Offered: Fall, Spring, & OPS
This course has an emphasis on managerial accounting involved with corporations, control accounting, and decision making.
Grade Type: Letter Grade
Prerequisite(s): ACC 250

ACC 310 - Intermediate Accounting I

Units: 3
When Offered: Fall & OPS
A comprehensive and in-depth coverage of accounting principles. The course is for accounting majors or students wanting a solid understanding of accounting. The accounting cycle steps are reviewed and more complex accounting problems are presented. Topics include cash, short-term investments, accounts receivable, inventories, liabilities, statement of cash flows, revenue recognition, and debt financing.
Grade Type: Letter Grade
Prerequisite(s): ACC 251

ACC 311 - Intermediate Accounting II

Units: 3
When Offered: Spring & OPS
This course has an emphasis on property, equipment, intangible assets, corporations, long-term investments in equity securities, long-term liabilities, accounting for pensions, leases, error corrections, analysis of financial statements, income taxes and financial reporting.
Grade Type: Letter Grade
Prerequisite(s): ACC 310

ACC 320 - Cost Accounting

Units: 3
When Offered: Spring & OPS
This course covers budgeting, standard costs, analysis of variances, job order and process accounting, profit centers, capital budgeting, and managerial controls.
Grade Type: Letter Grade
Prerequisite(s): ACC 310

ACC 330 - Governmental and Non-profit Accounting

Units: 3
When Offered: Spring & OPS
Covers municipal, school, university, hospital, church, and other forms of governmental and non-profit organizational

accounting. Types of funds discussed are general, revenue, capital projects, enterprise, debt service, and others.
Grade Type: Letter Grade
Prerequisite(s): ACC 311

ACC 345 - Managerial Accounting

Units: 3
When Offered: OPS
Introduction to managerial accounting concepts and principles, focusing on the development and application of costing concepts as they apply to manufacturing environments. This includes the collection and reporting of cost data used for planning, controlling and decision-making in a business environment.
Grade Type: Letter Grade

ACC 350 - Financial Accounting I

Units: 3
When Offered: OPS
A study of accounting principles relating to non-current assets and liabilities emphasizing the measurement and valuation of property, plant and equipment, other long-term assets, and current and long-term liabilities. Emphasis is also placed on the accounting aspects of the operations of sole proprietorships, partnerships and corporations. (This course does not meet the requirements for upper division accounting units within the accounting major).
Grade Type: Letter Grade

ACC 351 - Financial Accounting II

Units: 3
When Offered: OPS
A continuation of the study of accounting principles relating to non-current assets and liabilities emphasizing the measurement and valuation of property, plant and equipment, other long-term assets, and current and long-term liabilities. Emphasis is also placed on the accounting aspects of the operations of sole proprietorships, partnerships and corporations.
Grade Type: Letter Grade
Prerequisite(s): ACC 350 (This course does not meet the requirements for upper division accounting units within the accounting major)

ACC 410 - Advanced Accounting

Units: 3
When Offered: Fall & OPS
A study of business combinations and consolidation accounting, including the accounting relationships between parent and subsidiary business entities, the processing of intercompany transactions, and elimination entries. Additional topics may include recording foreign currency exchange transactions, translations of foreign subsidiary financial statements and partnership accounting.
Grade Type: Letter Grade
Prerequisite(s): ACC 311

ACC 420 - Accounting Information Systems

Units: 3
When Offered: Fall & OPS
A study of accounting and processing controls for automated accounting systems, and developing and implementing an automated accounting system.
Grade Type: Letter Grade
Prerequisite(s): ACC 311 and CIS 270

ACC 430 - Federal Income Tax Accounting

Units: 3
When Offered: Fall & OPS
Covers the theory of tax accounting with practical applications to individuals, proprietorships, partnerships, corporations, and fiduciary organizations.
Grade Type: Letter Grade
Prerequisite(s): ACC 251

ACC 470 - Auditing

Units: 3
When Offered: Spring & OPS
A study of the attest function performed by independent public accountants. Topics include management assertions, fundamental principles (formerly generally accepted auditing standards), tests of controls and substantive procedures for the accounting cycles, and report forms and opinions. Various techniques are used to study auditing concepts and practices and may include preparing problem sets, analyzing case studies, and performing simulated audit procedures.
Grade Type: Letter Grade
Prerequisite(s): ACC 410

ACC 480 - Accounting Ethics

Units: 3
When Offered: Fall
This course focuses on the ethical and professional responsibilities of CPAs in public and private practice. Ethical reasoning, corporate governance, decision making and ethical frameworks will be examined to provide a base of understanding. The AICPA Code of Professional Conduct and other professional standards will be studied as they apply to the practice of accounting.
Grade Type: Letter Grade
Prerequisite(s): Senior status

ACC 491 - Internship in Accounting

Units: 1-3
When Offered: Fall, Spring, Summer
Under faculty supervision, the student will work in an accounting firm, or in a business, governmental entity or non-profit organization in an accounting area. This is an opportunity for field experience in applying accounting coursework and principles.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

AIR 090 - Leadership Laboratory

Units: 0
When Offered: As offered
Open only to enrolled Air Force ROTC cadets. Cadets must be concurrently enrolled in aerospace studies courses. Designed to allow students to apply leadership techniques and military skills taught in the classroom and to develop their confidence as future military officers.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Pass/Fail

AIR 101 - The Air Force Today I

Units: 0.67
When Offered: As offered

Examines the roles and ethical standards expected of an Air Force officer. Presents the opportunities and benefits of being an Air Force officer.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 102 - The Air Force Today II

Units: 0.67
When Offered: As offered
The Air Force organization, structure, and mission with emphasis on the basic skills used by military officers.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 103 - The Air Force Today III

Units: 0.67
When Offered: As offered
Further analysis of ethical standards expected of an Air Force officer with an emphasis on group dynamics.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 201 - The Development of Air Power I

Units: 0.67
When Offered: As offered
Development of air power technology and tactics from 1900 through the Vietnam War and its impact on military thought.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 202 - The Development of Air Power II

Units: 0.67
When Offered: As offered
Development of air power technology and tactics from the Vietnam War to present and its impact on military thought.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 203 - The Development of Air Power III

Units: 0.67
When Offered: As offered
In-depth discussion of values and public expectations as they relate to military officers.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 301 - Air Force Leadership and Management I

Units: 2
When Offered: As offered
Principles and functions of management and leadership. Introduction to "Total Quality Management."
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 302 - Air Force Leadership and Management II

Units: 2
When Offered: As offered
"Quality Air Force" initiatives, procedures, and applications.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 303 - Air Force Leadership and Management III

Units: 2
When Offered: As offered
Ethics in modern society and the military, including the "Standards of Conduct" and the principles of modern war.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 401 - National Security Forces in Contemporary American Society I

Units: 2
When Offered: As offered
Forces and issues that influences policy decisions and application of military force. The impact of the executive branch and Congress on military operations.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 402 - National Security Forces in Contemporary American Society II

Units: 2
When Offered: As offered
Geopolitical influences on U.S. political decision making and the use of military force.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

AIR 403 - National Security Forces in Contemporary American Society III

Units: 2
When Offered: As offered
Basic knowledge necessary for effective military leadership including consideration of legal issues and the military judicial system.
This course offered through concurrent enrollment at California State University, San Bernardino.
Grade Type: Letter Grade

ALH 301 - Global Health Engagement Seminar

Units: 3
When Offered: Spring
This seminar is the first half of the Global Health Engagement sequence. Students will prepare for a summer global engagement practicum through class lectures and a research paper. Cultural awareness and sensitivity as well as an understanding of global health are key components of this class. Students are required to take this course prior to completion of the global health engagement practicum.
Grade Type: Letter Grade
Prerequisite(s): HSC 100

ALH 401 - Global Health Engagement Practicum

Units: 3
When Offered: Summer
The purpose of the global health engagement practicum is to provide students with an opportunity to expand the level of understanding of what it takes to be an international health care professional, and to gain new insight about the commitment it takes to follow the path to becoming an international health care provider. Students will have the opportunity to travel abroad, working with partners in healthcare and health related fields.
Repeatable: May be repeated once for credit
Grade Type: Letter Grade
Prerequisite(s): ALH 301

ALH 405 - Grant Writing

Units: 3
When Offered: As offered
An examination of the skills required to locate funding opportunities and write and submit grant applications and reports for health promotion and education programs. The course is designed to help students to gain experience and practice in finding grant money and applying for grants to undertake community health projects.
Grade Type: Letter Grade

ASL 115 - American Sign Language I

Units: 3
When Offered: Fall, Spring, & OPS
An introductory course designed for students with no previous experience using ASL. Beginning with the alphabet, students will learn the basic components of ASL-fingerspelling, vocabulary, grammar and syntax, expressive and receptive skills, along with Deaf culture and social etiquette.
Grade Type: Letter Grade

ASL 125 - American Sign Language II

Units: 3
When Offered: Fall, Spring, & OPS
This course is for students who possess a functional knowledge of fingerspelling, vocabulary formation, placement and directionality. Acquaintance with current and historical aspects of Deaf culture and social etiquette is also assumed. In this course students will refine their expressive and receptive skills, while broadening their understanding of the Deaf-world. Must pass with a C- or better to continue in ASL 215.
Grade Type: Letter Grade
Prerequisite(s): ASL 115

ASL 215 - Intermediate American Sign Language I

Units: 3
When Offered: Fall
Students will be introduced to advanced language and vocabulary development with special emphasis placed on sentence construction and expressive skills. The course will provide further development of conversational techniques and use of ASL in normal everyday situations such as the location of items around the home, complaints, making suggestions and requests, and exchanging personal information through life events. This course will also expand the study of Deaf cultural issues. Must pass with a C- or better to continue in ASL 225.
Grade Type: Letter Grade
Prerequisite(s): ASL 125

ASL 225 - Intermediate American Sign Language II

Units: 3
When Offered: Spring

This course will introduce students to the art of hand shape storytelling and legends within the Deaf community. This section will include the grammatical use of ASL in sign movements conveyed and modified in the language, how and when to use facial movements; and how body, head and eye movements are used in phrasing and agreement. In this section, students will learn to sign everyday information through description and identification of things and talking about weekend events. Class emphasis will be on expressive and receptive skills.
Grade Type: Letter Grade
Prerequisite(s): ASL 215

ASL 315 - Deaf Studies

Units: 3
When Offered: As offered
An interdisciplinary introduction to the concepts, issues and literary genre of the deaf-world. This course emphasizes the Deaf community as a cultural linguistic people group and the centrality of ASL, heritage and traditions, and values in this community. From a literary and theoretical view, the course locates the field of Deaf Studies within the broader field of Disability Studies by analyzing intersections and differences between the two.
Grade Type: Letter Grade

ASL 325 - American Sign Language Linguistics

Units: 3
When Offered: As offered
This course offers a comparative analysis of linguistic properties and tendencies of American Sign Language and English. General topics of study include an overview of the historical evolution of sign languages, leading into contemporary thought on phonology, morphology and syntax of ASL. Students will also explore regional and dialectical linguistic variations that occur within sub-communities such as Black, Hispanic and Asian Deaf communities.
Grade Type: Letter Grade
Prerequisite(s): ASL 225

ASL 415 - American Deaf Culture

Units: 3
When Offered: As offered
This course explores the history, traditions and issues of Deaf American culture from its 18th century European origins to contemporary multicultural USA. Utilizing a multilayered approach to learning-lecture, readings, case study, film study, contextual experience and classroom debate-students will analyze the complex web of influences and issues-linguistic, political, economic, educational, religious, medical and social-that form what we commonly refer to as "culture."
Grade Type: Letter Grade

ASL 425 - Introduction to Interpreting for the Deaf

Units: 3
When Offered: As offered
To be an effective interpreter one needs high levels of skill in the languages being interpreted. This course is full of challenging exercises with videotaped source materials that make ASL skills strong and flexible and prepares students to move on to more advanced skills. Helpful theoretical introduction for each topic, study questions and comprehension sections called "Get to Know the Signer," make these materials a thorough, powerful learning tool.
Grade Type: Letter Grade
Prerequisite(s): ASL 225

ANT 200 - Special Topics in Anthropology

Units: 3
When Offered: As offered
An in-depth seminar on a selected topic within Anthropology.
Repeatable: Course is repeatable for credit with a change in topic
Grade Type: Letter Grade
Prerequisite(s): ANT 225 or BEH 100

ANT 225 - Cultural Anthropology

Units: 3
When Offered: Fall, Spring
A general survey of Cultural Anthropology from a behavioral, cognitive, and material perspective and viewed as a social science, focuses on cultural factors that affect human behavior, including a brief overview of the four major fields of anthropology. Topics include cultural change, language, family, religious practices, economic subsistence patterns, and political power systems.
Grade Type: Letter Grade

ANT 315 - Health and Holistic Healing

Units: 3
When Offered: Fall, Spring
This course provides students with a greater perspective of the ways in which various cultures engage with and understand health and illness. Students will gain understanding of the political and economic structures embedded within health systems.
Grade Type: Letter Grade

ANT 320 - Ethnomedicine

Units: 3
When Offered: Spring (even years)
A general survey to the field of medical anthropology, with a special focus on ethnomedicine. Topics covered include cross-cultural views of human health, disease and illness, healing, and ideologies of the body. Theoretical and methodological approaches used by medical anthropologist are also taught as they shed light on different ethnomedical systems. Special focus will be on reading ethnographic materials from Western and non-Western setting to explore how health, illness, and healing are culturally shaped and mediated.
Grade Type: Letter Grade
Prerequisite(s): ANT 225, BEH 100, or permission of the Dean

ANT 325 - Physical Anthropology and Archaeology

Units: 3
When Offered: Spring
A general survey of Physical Anthropology, including evolutionary theory, the primate fossil record, primatology, human variability, and genetics. The history, methods, and theories of archaeology are also considered - covering all eras of the human past, from prehistoric to modern times.
Grade Type: Letter Grade

ANT 340 - Theory in Anthropology

Units: 3
When Offered: Fall (odd years)
This course addresses anthropological theory in a historical context and explores how the discipline has developed over time. Theories of culture are the main focus, though archeological, physical, and linguistic anthropological theories are discussed. Approaches to understanding human behavior from cognitive, material, and behavioral approaches are central.

Grade Type: Letter Grade
Prerequisite(s): ANT 225 or BEH 100

ANT 350 - Language and Culture

Units: 3
When Offered: Spring
An examination of the relationship between culture and language including a basic understanding of language, the development of language, linguistic aspects of culture and how the symbiosis of language and culture affect individuals, groups and nations.
Grade Type: Letter Grade

ANT 360 - Globalization and Culture

Units: 3
When Offered: Spring (even years)
This course explores the nature of globalization from multiple perspectives, but especially as evidenced in increasingly dynamic national and ethnic identities, (im)migration, economic disparity, and social systems. Students consider how various cultural elements (including gender ideologies, family systems, religious practices, and economic and political traditions) have been affected as a result of globalization. Using comparative methods alongside anthropological and historical theories, students engage in an interdisciplinary approach to understanding globalization.
Grade Type: Letter Grade

ANT 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade
Prerequisite(s): ANT 225 or BEH 100

ANT 400 - Special Topics in Anthropology

Units: 3
When Offered: As offered
An in-depth seminar on a selected topic within Anthropology.
Repeatable: Course is repeatable for credit with a change in topic
Grade Type: Letter Grade

ANT 410 - Economic and Political Anthropology

Units: 3
When Offered: Spring (odd years)
This course will examine patterns of subsistence (economics) and social organization and control. Focusing on case studies and theoretical perspectives in anthropology regarding economics and political systems, students will explore the meaning and function of various approaches to subsistence and social organization. Using the comparative perspective (ethnology), students will also critically assess democracy as it is contextualized among various people groups to consider various forms of political engagement and shape their own views of how cultural groups employ these patterns of culture.
Grade Type: Letter Grade

ANT 430 - Culture and Personality

Units: 3
When Offered: Fall
This course focuses on the interaction between personal patterns of behavior and social influences, paying particular attention to media influence and a history of social and psychological perspectives. Students will consider the dynamic between environment and heredity (nature/nurture) as they explore several facets of human behavior.
Grade Type: Letter Grade
Prerequisite(s): ANT 225 or BEH 100

ANT 440 - Internship in Anthropology

Units: 3
When Offered: Fall, Spring
This course is practical application of basic anthropological principles in community or campus responsibilities under professional supervision.
Grade Type: Pass/Fail
Fee: Additional testing fee
Prerequisite(s): ANT 225 and permission of the Dean

ANT 450 - Family and Gender Studies

Units: 3
When Offered: Fall (odd years)
This course explores a diversity of family systems, both modern and historic. Focusing on case studies and theoretical perspectives in anthropology, students will explore the tangible roles family and gender play in everyday life throughout the world. Using the comparative perspective (ethnology), students will shape their perspectives about family and gender through the exploration of cultural groups and the extent to which they employ dynamic family and gender roles.
Grade Type: Letter Grade

ANT 460 - Religion and Culture

Units: 3
When Offered: Fall (even years)
This course examines an anthropological approach to religion and magic, and its relationship to symbolism, myths, sacred spaces, and rituals. This course investigates anthropological theories of religion providing a multicultural analysis of numerous forms of religious expression. Additionally, this course will examine the subject of "religion" as it intersects with economics, politics, gender, secularism, and post-colonialism.
Grade Type: Letter Grade

APT 192 - Foundations for Ministry

Units: 3
When Offered: Fall
This course is an introduction to the expectations of the Bachelor of Applied Theology program. Emphasis is given to spiritual foundations for ministry, including personal and church discipleship. Attention is given to models of discipleship and the student's development of a personal strategy of discipleship.
Grade Type: Letter Grade
Prerequisite(s): Bachelor of Applied Theology major

APT 292 - Theology of Pastoral Ministry

Units: 3
When Offered: Spring
This course is an introduction to the practical ministry responsibilities inherent in the role of a pastor. Emphasis is given to the normal functions of the pastor in the observance of the ordinances, wedding, counseling, and conflict

management. Emphasis is also given to challenges confronting contemporary pastors in providing pastoral leadership and care for congregations.
Grade Type: Letter Grade

APT 293 - Supervised Church Ministry Internship I

Units: 2
When Offered: Spring
A more intensive application of APT 292 in the Applied Theology program. The student will progressively have the opportunity to focus on the accomplishment of ministry in a specific ministry context, while continuing to integrate various elements of a semester's study.
Grade Type: Letter Grade
Prerequisite(s): APT 292

APT 352 - The Pastor as Worship Leader

Units: 3
When Offered: Spring
The Pastor as Worship Leader is a study of the role of the pastor as it applies to the facilitation of worship in the local church. Emphasis will be given to the theology, history, purpose, function, and application of worship, various musical and ministry styles of corporate worship, practical worship ministry and leadership structures, and an empathetic examination of the worship artist, musician, and leader.
Grade Type: Letter Grade

APT 365 - Doctrine of the Church

Units: 3
When Offered: Fall
This course examines key biblical passages related to the church, overviews major historical positions of the church, and assesses related models of pastoral leadership, ministry, and preaching. The emphasis of the course is to help students develop a biblical and practical theology of the church.
Grade Type: Letter Grade

APT 371 - Christian Theology I

Units: 3
When Offered: Fall & OPS
An expanded study of the biblical doctrines of God, humanity, and sin.
Grade Type: Letter Grade
Prerequisite(s): Bachelor of Applied Theology or Christian Studies major

APT 372 - Christian Theology II

Units: 3
When Offered: Spring & OPS
An expanded study of the biblical doctrines of salvation, the person of Christ, the church, and last things.
Grade Type: Letter Grade
Prerequisite(s): Bachelor of Applied Theology or Christian Studies major

APT 392 - Supervised Church Ministry Internship II

Units: 2
When Offered: Fall
A more intensive application of APT 293 - Supervised Church Ministry Internship I in the Applied Theology program under the guidance of a University supervisor. The student will progressively have opportunities for ministry

involvement, mentoring, and ministry skill development. The emphasis of the course is for the student understanding of the priority and implementation of evangelism and missions in the ministry of the church.
Grade Type: Letter Grade
Prerequisite(s): APT 293

APT 393 - Supervised Church Ministry Internship III

Units: 2
When Offered: Spring
A more intensive application of APT 392 - Supervised Church Ministry Internship II in the Applied Theology program under the guidance of a University supervisor. The student will progressively have opportunities for ministry involvement, mentoring, and ministry skill development. The emphasis of the course is upon development of communication skills in preaching and teaching of the Bible.
Grade Type: Letter Grade
Prerequisite(s): APT 392

APT 452 - Advanced Biblical Preaching

Units: 3
When Offered: Fall
This course prepares students in communicating the truth of the ancient Scriptures to modern people. It explores the variations of crafting of expository sermons. The course will examine how sermons can be constructed to reflect the genre of the biblical literature: narrative, poetry, psalms, history, prophecy, parable, apocalyptic, and epistles.
Grade Type: Letter Grade
Prerequisite(s): CST 451

APT 482 - Pastoral Leadership

Units: 3
When Offered: Spring & OPS
Pastoral Leadership is an intensive study of the leadership role of the pastor in relation to the nature of the church, leadership models, leadership challenges, and practical leadership strategies.
Grade Type: Letter Grade

APT 490 - Reading Seminar

Units: 3
When Offered: Fall
This course seeks to help advanced theology students focus their attention on major figures, writings, and doctrines in theology. The student will read a major work (or excerpts) of representative theologians such as Augustine, Martin Luther, John Calvin, Jonathan Edwards, Dietrich Bonhoeffer, Carl Henry, and John Stott. Particular attention will be given to the writings, teachings, influence, as well as the theological systems linked to each theologian.
Grade Type: Letter Grade

APT 492 - Supervised Church Ministry Internship IV

Units: 2
When Offered: Fall
A more intensive application of APT 393 - Supervised Church Ministry Internship III in the Applied Theology program under the guidance of a University supervisor. The student will progressively have opportunities for ministry involvement, mentoring, and ministry skill development. The emphasis of the course is the development of leadership skills.
Grade Type: Letter Grade
Prerequisite(s): APT 393

APT 495 - Senior Exegesis Seminar

Units: 3
When Offered: Spring
This capstone course for the Applied Theology program is designed to demonstrate student competence in research/writing and in biblical exegesis utilizing interpretive tools, the biblical languages, theological reflection, and practical application to the global and local Church. The student will integrate the various elements of the program into a personal and practical theology/philosophy of Christian ministry.
Grade Type: Letter Grade
Prerequisite(s): APT 492

ARC 120 - Design Communication

Units: 4
When Offered: Spring
The course will establish a base of design concepts and knowledge with an introduction to references and ideas to foster independent inquiry. The course will introduce graphic communications through a series of two dimensional exercises; developing foundational skills.
Grade Type: Letter Grade
Prerequisite(s): CAVAD major

ARC 122 - Design Fundamentals

Units: 4
When Offered: Fall
The course will establish a base of design concepts and knowledge with an introduction to references and ideas to foster independent inquiry. The course will develop foundational appreciation and skills for effective three-dimensional (3D) visual expression through graphic representation.
Grade Type: Letter Grade
Prerequisite(s): Architecture or Interior Design major

ARC 200 - Special Topics in Architecture

Units: 1-3
When Offered: As offered
This course will focus on various studio and lecture courses, which explore and present selected topics in architecture and design.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

ARC 210 - Design Studio I

Units: 6
When Offered: Fall
The studio explores and develops conceptual strategies for basic formal and spatial design, emphasizing the role of ordering principles and of fundamental architectonic elements in the implementation of design intentions. Students also will be introduced to foundational processes for developing design projects through the application of formal analytical vocabulary, diagramming, drawing methods and conventions, and three-dimensional modeling.
Grade Type: Letter Grade
Prerequisite(s): ARC 122 and CAVAD major

ARC 212 - Design Studio II

Units: 6
When Offered: Spring

The studio focuses on conceptualization and implementation of architectural ideas in response to environment, landscape, site and enclosure, as applied to a specific program and building type. Students will continue to develop the foundational design processes introduced in previous studios, and will be introduced to the role of rigorous precedent analysis in the generation of architectural ideas.
Grade Type: Letter Grade
Prerequisite(s): ARC 210

ARC 220 - Computer Modeling

Units: 3
When Offered: Spring
The course will be an advanced course to develop an awareness and understanding of the role of Building Information Modeling in the student's ability to study design ideas and present those ideas in the various design disciplines. Emphasis will be on the relationship of computer graphics with the design process.
Grade Type: Letter Grade
Prerequisite(s): ARC 120 and CAVAD major

ARC 240 - Architectural History I

Units: 3
When Offered: Fall
The course will cover formal, theoretical, material, pragmatic and conceptual aspects of architecture, cities and art, examined in relation to their cultural contexts, from pre-history to circa 1400.
Grade Type: Letter Grade

ARC 242 - Architectural History II

Units: 3
When Offered: Spring
The course will cover formal, theoretical, material, pragmatic and conceptual aspects of architecture, cities and art, examined in relation to their cultural contexts, from circa 1400 to the present.
Grade Type: Letter Grade

ARC 280 - Materials and Methods

Units: 4
When Offered: Fall
Introduction to materials and methods of the construction of buildings emphasizing the integration of design and technology. Includes comprehensive introduction to the construction of buildings and their systems, materials and methods, and their implications on building sustainability and design decision-making. Common construction methods and details are introduced. Material applications in structural and non-structural building components are explored. CAD and BIM systems are used to develop construction documents for a case study building. Skills developed include analysis of building form and function, understanding design and material selection interrelationships, and communication of ideas through drawing.
Grade Type: Letter Grade
Prerequisite(s): Architecture major

ARC 310 - Design Studio III

Units: 6
When Offered: Fall
The studio focuses on conceptualization and implementation of architectural ideas throughout the process of pre-design, programmatic development, site design, and building design. Emphasis will be placed on architectural design as an interpretation and accommodation of various human activities through the exploration of program, perception, scale, proportion, life-safety code and accessibility requirements. Students will continue to develop the design processes

introduced in previous studios.
Grade Type: Letter Grade
Prerequisite(s): ARC 212

ARC 312 - Design Studio IV

Units: 6
When Offered: Spring
The studio draws upon the three previous courses in the studio sequence, emphasizing the integrative nature of architectural design. Students will develop and demonstrate their abilities to conceptualize and implement building designs that bring together basic design principles, structural and envelope systems, environmental systems, programmatic and building service systems and egress, through the design of housing.
Grade Type: Letter Grade
Prerequisite(s): ARC 310

ARC 350 - Architectural Theory I

Units: 3
When Offered: Fall
The purpose of this course is to enable students to understand the formation and context of various architectural ideas. This course on architectural theory provides students with a means to propose and navigate architectural discourse as a part of their development as architects.
Grade Type: Letter Grade
Prerequisite(s): ARC 242, ART 241, or 242

ARC 370 - Professional Preparation

Units: 2
When Offered: Spring
Professional Preparation provides an introduction to the profession of architecture through 1) exploration of the structures of practice including how an office functions and expectations of internship experience; 2) exploration of a critical position of the student in relationship to their design work resulting in the craft of portfolio production; 3) development of professional skills and documents required to obtain a job in professional practice setting; and 4) examination of leadership skills as applied within an architectural practice setting.
Grade Type: Letter Grade

ARC 380 - Thermal Environmental Systems

Units: 3
When Offered: Fall
This course deals with the thermal and environmental processes which effect buildings and how the designer responds to or manipulates the thermal environment. It is necessary for the architect to understand those processes, the human response to them and the impact of them. The class will be organized around the why, what and how of these issues and processes.
Grade Type: Letter Grade
Prerequisite(s): PHY 115

ARC 385 - Luminous and Sonic Environmental Systems

Units: 3
When Offered: Spring
The course deals with those building elements that pertain to the visual and aural conditioning for the purposes of human use and comfort. The basic principles of light (natural and electrical) and acoustical systems, their integration with other building systems and the impact on the aesthetics of design will be stressed. Plumbing and electrical systems also will be presented. The sustainability of various systems will be explored.

Grade Type: Letter Grade
Prerequisite(s): CAVAD major

ARC 393 - Structural Systems I

Units: 4
When Offered: Fall
Introductory course in statics and strengths of materials for architects. The course provides both qualitative understanding and quantitative understanding, but places a specific focus on the conceptual relationships between structure and form. Topics include static systems, tension and compression, bending and shear stress, combined stresses, strain, cross-sectional considerations, and the physical behavior of structural materials and systems. Additionally, this course integrates the above material with design studio processes via course projects and course format.
Grade Type: Letter Grade
Prerequisite(s): MAT 145 or 245

ARC 400 - Special Topics in Architecture

Units: 1-3
When Offered: As offered
The course will focus on various studio and lecture courses, which explore and present selected topics in architecture and design.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

ARC 410 - Design Studio V

Units: 6
When Offered: Fall
This course is an advanced design studio that assumes a high level of proficiency in design process and representation, as well as in other content areas developed in previous studios. This studio focuses on the conceptualization and implementation of comprehensive architectural design. Students will be expected to draw upon all previous coursework in order to thoroughly develop a project from a detailed program.
Grade Type: Letter Grade
Prerequisite(s): ARC 312

ARC 412 - Design Studio VI

Units: 6
When Offered: Spring
The studio is an advanced design studio that promotes the critical, creative and innovative exploration of environmental, human and tectonic factors associated architectural design process and design thinking.
Grade Type: Letter Grade
Prerequisite(s): ARC 410
Pre- or Co- Requisite(s): ARC 480

ARC 460 - International Design Seminar

Units: 4
When Offered: Spring
The course offers students an opportunity to learn, discuss, and analyze historical and contemporary architecture theory, criticism, and design principles on location. Raises and addresses architectural questions of composition, society, politics, and environment. Students may only earn credit for either ARC 460 or 561.
Grade Type: Letter Grade

ARC 462 - International History and Theory Seminar

Units: 3
When Offered: Spring, Summer
The course covers the detailed history of architecture and urban development in the host city, from its founding to the present. Offered only abroad.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ARC 312

ARC 464 - International Architecture Seminar

Units: 3
When Offered: Spring, Summer
The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying architecture in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

ARC 464G - International Architecture Seminar

Units: 3
When Offered: Spring, Summer
The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying architecture in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in an international setting. Offered only abroad.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Fee: Additional trip fee(s)
Prerequisite(s): Permission of the Dean

ARC 480 - Advanced Sustainable Systems

Units: 3
When Offered: Spring
This course will explore the history, goals, methods of design, quantification, and holistic integration of sustainable systems in architecture. Specific topics include design strategies for energy reduction, passive heating and cooling, comparative energy modeling, photovoltaic systems, envelope design, life cycle analysis, and sustainable vernacular architecture. Through readings, lectures, research, and projects, students will develop the theoretical framework and technical skills to implement fundamental sustainable strategies in architectural design and to evaluate their impact.
Grade Type: Letter Grade
Prerequisite(s): ARC 380

ARC 491 - Architecture Internship

Units: 1-3
When Offered: As offered
The purpose of this course is to expose students to the profession of architecture in a professional office setting, familiarize students with a professional working environment, prepare students for future employment and allow students to start their AXP process.
Repeatable: May be repeated for a maximum of six (6) units

Grade Type: Pass/Fail
Prerequisite(s): ARC 370

ARC 492 - Architecture Integrated Experience

Units: 1-3
When Offered: As offered
This course serves as an alternate to an architectural internship. The purpose of this course is to expose students to the profession of architecture by becoming aware of and having the opportunity to practice the skill sets needed to be a successful architect in the workplace. Further this course aims to prepare students for future employment and allow students to start their AXP process.
Grade Type: Pass/Fail
Prerequisite(s): ARC 370

ARC 493 - Structural Systems II

Units: 4
When Offered: Fall
Introduction to and application of a systems approach of structural design and analysis of buildings for architects. Topics include considerations of steel, concrete, timber, and long-spans structures. Introduction to structural analysis including introduction to typical structural analysis computer programs. Integration of course material with design studio processes via course projects and course format.
Grade Type: Letter Grade
Prerequisite(s): ARC 393

AVN 110 - Introduction to Aviation

Units: 3
When Offered: Fall
A survey of the U.S. aviation industry, including the history of aviation, attributes of an aviation professional, career planning, certification, airports, airspace, air traffic control, and navigational aids.
Grade Type: Letter Grade

AVN 200 - Special Topics in General Aviation

Units: 3
When Offered: As offered
Designed to allow a student to engage in directed in-depth study on issues associated with general aviation.
Repeatable: May be repeated once for credit
Grade Type: Letter Grade

AVN 210 - Aviation Meteorology

Units: 3
When Offered: Spring
An in-depth study of aviation weather, including temperature, atmospheric pressure, wind and moisture, stability, turbulence, clouds, air masses, fronts, thunderstorms, and icing. A study of weather charts, weather reports, and forecasts.
Grade Type: Letter Grade

AVN 300 - Aviation Research, Writing and Communication

Units: 3
When Offered: Fall
A review of techniques necessary to complete a research project on an aviation topic, including data collection

techniques, literature review procedures, data analysis, proper structure of reports, American Psychological Association (APA) formatting, and the manuscript submission process.
Grade Type: Letter Grade

AVN 310 - Aviation Law and Regulations

Units: 3
When Offered: Spring
An in-depth study of various U.S. federal aviation regulations and legislation affecting the aviation industry, including 14 CFR Parts 1, 25, 61, 67, 91, 121, 139, 175, and NTSB Part 830. An examination of the international aviation environment, such as standards and recommended practices promulgated by the International Civil Aviation Organization.
Grade Type: Letter Grade

AVN 322 - Aviation Safety

Units: 3
When Offered: Spring
An introduction to the safety regulations, requirements, and environment in the U.S., including an in-depth examination of Safety Management Systems (SMS).
Grade Type: Letter Grade

AVN 390 - Leadership in Aviation

Units: 3
When Offered: Fall
This course studies the many aspect of leadership in aviation. Various theories of leadership will be studied through study at the tactical, operational, and strategic levels. Multiple examples will be studied along with studying timeless principles of leadership. Past as well as current leaders will be studied to assess their success and failures. The student will be challenged to develop their personal aspects of leadership to prepare them to be leaders in aviation.
Grade Type: Letter Grade
Prerequisite(s): AVN 210

AVN 400 - Special Topics in Commercial Aviation

Units: 3
When Offered: As offered
Designed to allow a student to engage in directed in-depth study on issues associated with commercial aviation.
Repeatable: May be repeated one (1) time for credit
Grade Type: Letter Grade

AVN 490 - Aviation Internship I

Units: 1-3
When Offered: As offered
This course provides students the opportunity to perform an internship in the profession of aviation.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

AVN 491 - Aviation Internship II

Units: 1-3
When Offered: As offered
This course provides students the opportunity to perform an internship in the profession of aviation.

Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade
Prerequisite(s): AVN 490 and permission of the Department Chair

UAS 115 - Introduction to Unmanned Aerial Systems

Units: 3
When Offered: Fall (odd years)
This course will provide students with insight into the Unmanned Aerial Systems (UAS) industry through the introduction of UAS history, systems elements, regulatory system, COA (Certificate of Approval) process, operations, geospatial data, automation and autonomy, safety assessments, detect, sense and avoid, sensors and payloads, human factors, and the future of UAS.
Grade Type: Letter Grade

UAS 215 - Small Unmanned Aerial Systems Flight Lab

Units: 1
When Offered: Spring (even years)
Several stages of flight simulation and actual flight will include EP (external pilot) training, FPV (first person view), and programming the autopilot for autonomous flight.
Grade Type: Letter Grade
Prerequisite(s): UAS 115

UAS 325 - Medium Unmanned Aerial Systems Operations I

Units: 3
When Offered: Fall (even years)
The course will be a blend of academics and simulator sorties on a specific unmanned aerial system command and control system for medium size UAS and beyond line of site (BLOS) operations. The academics and simulator sorties will include preflight operations, normal command and control, recovery, and emergencies including lost link, lost communications, loss of power, and loss of battery power to mention a few of the aspects. The class will include simulators that allow the student to practice what they have learned in the academics throughout the course culminating in scenario-based training of several operational missions.
Grade Type: Letter Grade
Prerequisite(s): UAS 215

DSP 330 - Dispatch I

Units: 3
When Offered: Fall
An in-depth study of aerodynamics, instruments, airspace, regulations, performance, weight and balance, physiology, aviation weather, navigation, and flight operations. Prepares students for the FAA Dispatch knowledge test. Students must be age 21 to receive permission to enroll.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): AVN 210, 310, and FLT 119 and permission of the Department Chair

DSP 430 - Dispatch II

Units: 3
When Offered: Spring
In-depth study of cross country flight operations, including Lancer Airways Operational Specifications, advanced weather application, and practical dispatch applications. Students must be age 21 to enroll.
Grade Type: Letter Grade
Prerequisite(s): DSP 330

DSP 497 - Dispatch III

Units: 3
When Offered: Spring
Senior-level application of practical dispatch knowledge and techniques. Prepares students for FAA Dispatch Practical Exam. Students must be age 21 to receive permission to enroll.
Repeatable: Yes
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): FLT 410
Pre- or Co- Requisite(s): DSP 430

FLT 116 - Private Pilot Ground

Units: 3
When Offered: Fall, Summer
An in-depth study of airframes and aircraft systems, aircraft instruments, safety, aerodynamics, stability, physiology, weather, airports, airspace, emergency operations, ground reference maneuvers, charts and publications, and the principles of pilotage, dead-reckoning, as well as radio and electronic methods of navigation as applied to cross-country flight planning to prepare the student for the FAA private pilot knowledge test.
Grade Type: Letter Grade
Fee: Additional lab fee

FLT 117 - Private Airplane Pilot Lab I

Units: 2
When Offered: Fall, Spring, Summer
Flight instruction leading to the aircraft solo. Current FAA Third Class Medical Certificate and Student Pilot Certificate required prior to registering.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): Permission of Department Chair

FLT 118 - Private Airplane Pilot Lab II

Units: 2
When Offered: Fall, Spring, Summer
The second of two flight labs culminating in a Private Pilot Certificate.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 117

FLT 119 - Instrument Pilot Ground

Units: 3
When Offered: Fall, Spring
An in-depth study of aircraft instruments, preflight and aircraft systems, navigation, holding, approaches, emergencies, and weather reports and forecasts. Prepares student for the FAA instrument rating knowledge test.
Grade Type: Letter Grade
Fee: Additional exam fee
Prerequisite(s): FLT 116 and 117

FLT 140 - Time Building Flight Lab I

Units: 1
When Offered: Fall, Spring, Summer
Time Building Flight Lab.
Repeatable: May be repeated one (1) time for credit
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 117 and permission of the Department Chair

FLT 214 - Instrument I Airplane Pilot Lab

Units: 2
When Offered: Fall, Spring, Summer
This lab is designed as the first of two flight labs for simulator/flight training culminating in an instrument airplane rating.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 118

FLT 215 - Commercial I and Instrument I Airplane Pilot Lab

Units: 1
When Offered: Fall, Spring, Summer
This lab is designed with two purposes. It will be an introduction to Instrument flight and a time building course for the commercial rating. Students will split their time on solo cross countries to build flight time as well as dual flights with their instructor to learn basic instrument flight maneuvers. Fifty flight hours.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 118 and permission of the Department Chair

FLT 216 - Instrument II Airplane Pilot Lab

Units: 2
When Offered: Fall, Spring, Summer
This lab is designed as the second of two flight labs for simulator/flight training culminating in an instrument airplane rating.
Grade Type: Pass/Fail
Fee: Additional lab fee
Pre- or Co- Requisite(s): FLT 214

FLT 224 - Modern Avionics and Navigational Aids

Units: 3
When Offered: Fall, Spring
An in-depth study of the modern avionics and navigation aids available to pilots, including NEXTGEN, ADS-B, and Garmin 500, 600, and G1000 units, and Aspen Evolution PFD1000.
Grade Type: Letter Grade

FLT 240 - Time Building Flight Lab II

Units: 1
When Offered: Fall, Spring, Summer
Time Building Flight Lab.
Repeatable: May be repeated one (1) time for credit
Grade Type: Pass/Fail

Fee: Additional lab fee
Prerequisite(s): FLT 117 and permission of the Department Chair

FLT 301 - Advanced and Commercial Airplane Pilot Ground

Units: 3
When Offered: Spring
An in-depth study of aerodynamics, instruments, engines, and systems of multi-engine aircraft.
Grade Type: Letter Grade
Prerequisite(s): FLT 311, 312, and permission of Department Chair

FLT 311 - Commercial Pilot Ground

Units: 3
When Offered: Fall, Spring
An in-depth study of aerodynamics, instruments, engines and systems, airports, air traffic control, and airspace, FARs, performance and weight and balance, aeromedical factors, aviation weather, navigation and flight operations. Prepares students for the FAA Commercial Pilot knowledge test.
Grade Type: Letter Grade
Prerequisite(s): FLT 119 and 214

FLT 312 - Commercial I Airplane Pilot Lab

Units: 2
When Offered: Fall, Spring, Summer
This lab is designed as the first of two flight labs for simulator/flight training culminating in a single engine commercial airplane certificate.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 216

FLT 313 - Commercial II Airplane Pilot Lab

Units: 2
When Offered: Fall, Spring, Summer
This lab is designed as the second of two flight labs for simulator/flight training culminating in a single engine commercial airplane certificate.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 312

FLT 314 - Advanced Commercial Airplane Pilot Lab

Units: 1
When Offered: Fall, Spring, Summer
An in-depth study of aerodynamics, instruments, engines and systems of multi-engine aircraft. Multi-engine commercial add-on. Twenty flight hours.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 313 and permission of the Department Chair

FLT 315 - Flight Instructor Pilot Ground

Units: 3
When Offered: Spring

An in-depth study of the practical application of flight training skills, including the principles of learning and communication, instructional methods, techniques, and media. Students will prepare a training syllabus and conduct ground lessons. Prepares students for the FAA Flight/Ground Instructor knowledge test.
Grade Type: Letter Grade
Fee: Additional exam fee
Prerequisite(s): FLT 311 and permission of Department Chair

FLT 317 - CFI and CFII Airplane Pilot Lab

Units: 1
When Offered: Fall, Spring, Summer
Flight instruction leading to the Certified Flight Instructor (CFI) and the Certified Flight Instrument Instructor (CFII). Forty-five flight hours.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 314 and permission of the Department Chair

FLT 318 - Certified Flight Instructor Lab

Units: 1
When Offered: Fall, Spring, Summer
Flight instruction leading to the Certified Flight Instructor (CFI).
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 216 and 315

FLT 319 - Certified Flight Instrument Instructor Lab

Units: 1
When Offered: Fall, Spring, Summer
Flight instruction leading to the Certified Flight Instrument Instructor (CFII).
Grade Type: Pass/Fail
Prerequisite(s): FLT 318

FLT 326 - Human Factors

Units: 3
When Offered: Spring
A review of the psychological human factors that affect aviation, including individual and organizational factors, and technology-induced errors. Includes common human errors and detection and recovery skills. The chain of events leading up to an aircraft accident are examined in light of specific aircraft accidents.
Grade Type: Letter Grade

FLT 328 - Aircraft Systems

Units: 3
When Offered: Fall
An in-depth study of aircraft systems, including engine, fuel, electric, hydraulic, pneumatic, flight control, and computer systems and displays.
Grade Type: Letter Grade

FLT 340 - Time Building Flight Lab III

Units: 1
When Offered: Fall, Spring, Summer

Time Building Flight Lab.
Repeatable: May be repeated one (1) time for credit
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 117 and permission of the Department Chair

FLT 350 - Airplane Aerodynamics

Units: 3
When Offered: Fall
This course studies the physical principles of airplane aerodynamics. Course involves examining the factors affecting aircraft performance, stability and control, and special flight conditions often experienced by commercial pilots of fixed-wing aircraft. Emphasized is stall/spin awareness and recovery, and commercial aircraft design and construction issues. This course will deal primarily with low speed aerodynamics or incompressible flow; includes a section on high-speed aerodynamics toward the end of the course.
Grade Type: Letter Grade

FLT 410 - Turbine Systems

Units: 3
When Offered: Spring
An in-depth study of turbine systems and turbine aircraft performance.
Grade Type: Letter Grade
Prerequisite(s): FLT 328

FLT 419 - Multi-Engine Instructor Pilot Lab

Units: 1
When Offered: As offered
Flight instruction leading to the Multi-Engine Instructor certificate.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 315

FLT 420 - Crew Resource Management

Units: 3
When Offered: Fall
An in-depth study of the complex multi-crew environment, including methods to enhance efficiency via a focus on interpersonal communication, leadership, and decision making. Designed to minimize accidents associated with human error.
Grade Type: Letter Grade

FLT 421 - Mission Aviation

Units: 3
When Offered: As offered
An in-depth study of missionary aviation including piloting in third world countries, cross cultural communication, missionary support, raising support, etc.
Grade Type: Letter Grade

FLT 422 - Turbine Transition Lab

Units: 1
When Offered: As offered

Flight instruction in turbine-powered aircraft and simulator.
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 314 and permission of the Department Chair

FLT 430 - Airline Prep

Units: 3
When Offered: Fall
Introduces the students to the policies, procedures, work practices, operating practices, and expectations for pilots in the airline industry.
Grade Type: Letter Grade

FLT 440 - Time Building Flight Lab IV

Units: 1
When Offered: Fall, Spring, Summer
Time Building Flight Lab
Repeatable: May be repeated one (1) time for credit
Grade Type: Pass/Fail
Fee: Additional lab fee
Prerequisite(s): FLT 117 and permission of the Department Chair

FLT 495 - Advanced Aerodynamics

Units: 3
When Offered: Spring
This course will survey the theory of airplane performance and flight characteristics. The course will provide in class instruction and practical laboratory work in both a simulator and aircraft to quantitatively document aircraft performance, and stability and control. Flight test data reduction and reporting techniques will conclude the learning objectives as students will report on the results of their tests and evaluations of the aircraft.
Grade Type: Letter Grade
Prerequisite(s): EGR 446 or FLT 350, and Senior status

AIS 305 - Flight Attendant I

Units: 3
When Offered: Fall
An introduction to the role of the flight attendant as a required crew member. Safety responsibilities, customer service, public speaking, crew resource management, and basic emergency medical care are covered in this course.
Grade Type: Letter Grade
Prerequisite(s): AVN 110

AIS 405 - Flight Attendant II

Units: 3
When Offered: Spring
This course will present the federal regulations that pertain specifically to flight attendants, as well as the role of inflight services in the management of an airline, flight attendant training requirements, work environment expectations, schedule bids, seniority, small group interaction, and domestic versus international flight attendant roles and expectations.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): AIS 305

AIS 495 - Flight Attendant Capstone

Units: 3
When Offered: As offered
A capstone course for the Aviation Inflight Services major, this capstone will include training for the flight attendant.
Grade Type: Letter Grade
Prerequisite(s): AVN 110

AMG 320 - Fixed Base Operations

Units: 3
When Offered: Fall (odd years)
A study of the practical issues associated with managing, operating, and marketing a fixed base operation (FBO).
Grade Type: Letter Grade

AMG 324 - Aviation Security

Units: 3
When Offered: Fall (even years)
An in-depth examination of security regulations, requirements, and environment in the U.S., including the role of the Department of Homeland Security in ensuring aviation security.
Grade Type: Letter Grade

AMG 330 - Airport Management I

Units: 3
When Offered: Fall (odd years)
An in-depth study of 14 CFR P139, Airport certification. Prepares students for the Airport Certified Employee (ACE) Operations exam offered by the American Association of Airport Executives.
Grade Type: Letter Grade
Fee: Additional lab fee

AMG 332 - Airport Management II

Units: 3
When Offered: Spring (even years)
An in-depth study of airport finance and administration, planning, construction, environmental, operations, security, maintenance, communications and community relations. Prepares students for the Certified Member (C.M.) exam offered by the American Association of Airport Executives.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): AMG 330

AMG 423 - Airport Planning and Design

Units: 3
When Offered: Spring (even years)
An in-depth study of planning, including data collection, forecasting, master planning, and environmental issues. Also includes an in-depth study of airside design, including airport capacity, pavement design, runway and taxiway design criteria, FAR Part 77 criteria, and landslide design, including ground access, curbside requirements, and traffic flow.
Grade Type: Letter Grade
Prerequisite(s): AMG 330

AMG 424 - Business Aviation Management

Units: 3
When Offered: Fall (even years)
An in-depth study of business aviation, including transportation needs analysis, aircraft acquisition methods, aviation department management, operations, maintenance, and safety.
Grade Type: Letter Grade

AMG 426 - Airline Management

Units: 3
When Offered: Spring (odd years)
Introduces the airline industry, including the history and unique aspects of the industry. Provides an in-depth study of the structure of airlines, including route planning, fleet selection, maintenance requirements, passenger services, marketing, and pricing.
Grade Type: Letter Grade

AMG 452 - Aviation Finance and Consulting

Units: 3
When Offered: Spring (odd years)
Introduces aviation-specific financial management principles, including financial document analysis, financial ratios, forecasting, financing, asset management, as well as an overview of the consulting industry, including an in-depth study of the many aspects of consulting, such as RFPs, RFQs, and the bid process. Uses spreadsheet, presentation, word processing and internet search tools to analyze financial reports, calculate ratios, solve financial problems, and respond to RFPs and RFQs.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): ACC 250 and CIS 265

AMG 499 - Aviation Management Capstone

Units: 3
When Offered: Spring
Provides a senior culminating experience for aviation management majors.
Grade Type: Letter Grade
Prerequisite(s): Senior status

UAS 326 - Medium Unmanned Aerial Systems Operations II

Units: 3
When Offered: Summer
The course will be a blend of academics, simulator sorties, and flight training/sorties on a specific unmanned aerial system command and control system for medium size UAS and beyond line of site (BLOS) operations. The academics, and simulator/flight sorties will include preflight operations, normal command and control, recovery, and emergencies including lost link, lost communications, loss of power, and loss of battery power to mention a few of the aspects. The class will include simulator and flight training that allow the student to practice what they have learned in the academics throughout the course culminating in scenario-based training of several operational missions.
Grade Type: Letter Grade
Prerequisite(s): UAS 325

UAS 400 - Special Topics in UAS

Units: 1
When Offered: As offered
Current topics in unmanned systems.

Repeatable: May be repeated for a maximum of four (4) units with change in topic
Grade Type: Letter Grade

UAS 415 - Unmanned Aerial Systems Mission Planning

Units: 3
When Offered: Fall
Students will learn how to operate any Unmanned Aerial Systems (UAS) platform that uses a Piccolo autopilot system. This course will prepare the student by going over crew positions, user interface of piccolo command center and viewpoint, normal and emergency operations, and mission planning.
Grade Type: Letter Grade
Prerequisite(s): UAS 215

UAS 425 - Large Unmanned Aerial Systems Operations

Units: 3
When Offered: Spring (odd years)
The course is a blend of academics and simulator sorties on a specific unmanned aerial system command and control system for large size UAS and beyond line of site (BLOS) operations.
Grade Type: Letter Grade

BEH 097 - Research Assistant

Units: 0
When Offered: As offered
This course is designed to provide students a deeper understanding of the behavioral and social sciences by participating in the scientific research process under the individualized mentorship of faculty. Students enrolled in this course will gain valuable insight into the entire research process (conceptualization, measurement development, participant recruitment, data collection, entry, analysis, as well as write-up and dissemination, as applicable), preparing them to engage with the professional fields of behavioral and social sciences and to conduct their own independent research.
Repeatable: May be repeated for credit
Grade Type: Pass/Fail

BEH 100 - Survey of the Behavioral Sciences

Units: 3
When Offered: Fall, Spring
This course introduces the student to the primary Behavioral Sciences of Anthropology, Psychology, Sociology and Christian Behavioral Sciences. The course addresses human beings and behavior from the distinctive theoretical perspectives of each of these behavioral sciences. General subject areas include theory and methodology of Behavioral Science research, human biology and behavior, personality and human development in a socio-cultural context, behavior in the context of ethics and values, and social and cultural change.
Grade Type: Letter Grade

BEH 200 - Special Topics in Behavioral Sciences

Units: 1-3
When Offered: As offered
An in-depth seminar on a selected topic within the Behavioral Sciences.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

BEH 250 - Reading and Writing in the Behavioral Sciences

Units: 3
When Offered: Fall, Spring, Summer, & OPS
In this course, students learn to write formal manuscripts using APA style. They also learn to read, understand, and critically evaluate behavioral science research as presented in academic journals and conferences. Learners in this course build foundational skills needed to succeed in their future courses.
Grade Type: Letter Grade

BEH 290 - Introduction to Research Methods

Units: 3
When Offered: Fall, Spring, & OPS
This course provides a comprehensive overview of both quantitative and qualitative research methods used in behavioral science research, along with an understanding of the ethical considerations and other challenges involved in good research design. Additional topics include measurement, sampling, and qualitative and quantitative data analysis.
Grade Type: Letter Grade
Prerequisite(s): BEH 250

BEH 333 - Epistemology and Worldview

Units: 3
When Offered: Fall, Spring, & OPS
This course examines the basic models of integrating the Christian faith and modern behavioral sciences, including the development of Biblical examples of worldview and epistemology. Emphasis is placed upon the student's development of a personal theory of integration.
Grade Type: Letter Grade

BEH 334 - Cultural Social Service Engagement Practicum

Units: 3
When Offered: As offered
This practicum incorporates instruction to prepare students for a cultural engagement through class lectures and a research paper. Cultural awareness and sensitivity as well as an understanding of a biblical worldview of social problems are key components of instruction. Additionally, the practicum provides an opportunity to travel, working with social service providers in a non-profit organization within a culturally diverse area.
Grade Type: Letter Grade
Fee: Additional trip fee(s)
Prerequisite(s): ANT 225, BEH 100, PSY 213, or SOC 213

BEH 334G - Global Social Service Engagement Practicum

Units: 3
When Offered: As Offered
This practicum incorporates instruction to prepare students for their summer global engagement through class lectures and a research paper. Cultural awareness and sensitivity as well as an understanding of a biblical worldview of global social problems are key components of instruction. Additionally, the practicum provides an opportunity to travel abroad, working with social service providers in a non-profit organization within the host country. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in a global setting. Additional fees will apply.
Grade Type: Letter Grade
Prerequisite(s): ANT 225, BEH 100, PSY 213, or SOC 213, and permission of the Dean

BEH 350 - Statistics for the Behavioral Sciences

Units: 4
When Offered: OPS

Introduction to descriptive statistics and probability, probability distributions, estimation, tests of hypotheses, chi-square tests, regression analysis, and correlation with applications in the behavioral sciences. Course emphasizes selection, application, and interpretation of appropriate statistical tests. Includes laboratory applications of statistical software to behavioral science data.
Grade Type: Letter Grade
Prerequisite(s): BEH 290, and MAT 115 or higher

BEH 383 - Statistics and Research Methodology I

Units: 4
When Offered: Fall, Spring
This course introduces the various quantitative and qualitative methodologies utilized in behavioral science research. Also included are the collection, treatment, and interpretation of data in research and testing using a statistical analysis application.
Grade Type: Letter Grade
Lecture: 3 hours **Lab:** 3 hours
Prerequisite(s): BEH 290, and either MAT 115 or STA 144

BEH 385 - Statistics and Research Methodology II

Units: 4
When Offered: Fall, Spring
This course presents some of the more complex quantitative and qualitative methodologies utilized in behavioral science research. It builds on the various concepts of quantitative research, qualitative research, data collection, analysis, and interpretation introduced in previous courses. This course continues the development of student proficiency with basic and intermediate functions of a statistical analysis application.
Grade Type: Letter Grade
Lecture: 3 hours **Lab:** 3 hours
Prerequisite(s): BEH 383

BEH 391 - Intermediate Statistics with Computer Applications

Units: 4
When Offered: OPS
Using a statistics software application, this course will examine applied statistics emphasizing correlational methods such as multiple regression and factor analysis, as well as analysis of variance and covariance for analyzing experimental data. Laboratory activities involve selecting the appropriate statistical tests, interpreting the results, and scientific report writing.
Grade Type: Letter Grade
Prerequisite(s): BEH 350

BEH 399 - Independent Study

Units: 1-3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

BEH 400 - Special Topics in Behavioral Science

Units: 1-3
When Offered: As offered
An in-depth seminar on a selected topic within the Behavioral Sciences.

Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

BEH 480 - Capstone

Units: 3
When Offered: Fall, Spring
This course provides students the opportunity to integrate and demonstrate learning from their major, evaluate their own strengths and weaknesses, and demonstrate an understanding of the integration of a Christian worldview and their major field of study. Students will evaluate their personal goals, calling and purpose as well as develop skills to move toward successful and fruitful participation in multiple levels of community, including graduate school and careers.
Grade Type: Letter Grade
Fee: Additional testing fee
Prerequisite(s): Senior status

BIO 101 - Orientation to the Discipline

Units: 1
When Offered: Fall, Spring
This course is designed to introduce students to the basic skills necessary for academic success in the discipline of Biology and to provide students with an overview of professions in which the major may be applied.
Grade Type: Pass/Fail

BIO 114 - General Botany with Lab

Units: 4
When Offered: Spring
A study of the physiology, morphology, reproduction, and a survey of the plant kingdom, including fungi, algae, liverworts, mosses, ferns, gymnosperms and angiosperms. Emphasis will be placed on the development, reproduction, and the relevance of plants to humans.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee

BIO 143 - Principles of Biology

Units: 3
When Offered: Fall, Spring, Summer, & OPS
An introductory course in biological principles intended for non-majors. Emphasis on scientific method, chemistry of life, interpretation of data, morphology and physiology of animals and plants, genetics, and current biological problems. Meets the general education requirement for natural sciences.
Grade Type: Letter Grade

BIO 143L - Principles of Biology Lab

Units: 1
When Offered: Fall, Spring, Summer, & OPS
Laboratory exercises in biology emphasizing basic scientific principles used in biology.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): BIO 143

BIO 146 - General Biology I with Lab

Units: 4
When Offered: Fall, Spring, Summer
Topics covered include cell structure and function, genetics, reproduction, and development of animal systems.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee

BIO 148 - General Biology II with Lab

Units: 4
When Offered: Fall, Spring, Summer
Includes organismal biology of animals and plants, their behavior, ecology, evolution, and adaptations.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee

BIO 153 - Anatomy and Physiology I

Units: 3
When Offered: Fall, Spring, Summer, & OPS
This course is designed for professional nursing and general college students. Included are a general survey of human histology and the study of structure and function of organ systems of the human body, including the integumentary, skeletal, muscular, endocrine, and nervous systems. Structure and function of sensory organs are also included in the course. Should be taken with Anatomy and Physiology I Lab .
Grade Type: Letter Grade

BIO 153L - Anatomy and Physiology I Lab

Units: 1
When Offered: Fall, Spring, Summer, & OPS
A laboratory experience designed to illustrate and reinforce topics covered in BIO 153 Anatomy and Physiology I. Included is the detailed study of cells, tissues, the structure and function of the skeleton, the muscles, and the nervous and endocrine systems of the human body using laboratory experience and demonstration.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): BIO 153

BIO 163 - Anatomy and Physiology II

Units: 3
When Offered: Fall, Spring, Summer
A continuation of BIO 153 - Anatomy and Physiology I. Included is the study of structure and function of the circulatory (blood, heart, blood vessels, and circulation), lymphatic, immune, respiratory, urinary, and reproductive systems. Should be taken with BIO 163L - Anatomy and Physiology II Lab.
Grade Type: Letter Grade
Prerequisite(s): (Recommend: BIO 153)

BIO 163L - Anatomy and Physiology II Lab

Units: 1
When Offered: Fall, Spring, Summer
A laboratory experience designed to illustrate and reinforce topics covered in Anatomy and Physiology II. Included is the study of circulatory, lymphatic, immune, respiratory, urinary, and reproductive systems using laboratory experience and demonstration.
Grade Type: Letter Grade

Fee: Additional lab fee
Pre- or Co- Requisite(s): BIO 163

BIO 173 - Medical Terminology

Units: 3
When Offered: Fall, Spring
The analysis of the Greek and Latin components of medical and biological terms with the objective of developing skills in word recognition and word building.
Grade Type: Letter Grade

BIO 200 - Topics in Biology

Units: 1-4
When Offered: As offered
This class deals with research projects and topics of current or historical interest which are not normally covered in other established courses. Content variable from year to year.
Grade Type: Letter Grade

BIO 204 - Microbiology for Engineers

Units: 2
When Offered: Fall
This course covers the basic science of environmental microbiology using an integrated lecture and laboratory approach. Topics covered include basic microbiological concepts, classification of organisms, chemical composition of life (carbohydrates, nucleic acids, proteins, and lipids), the cell (Prokaryotes, Eukaryotes, cell membrane, organelles), cell biology, types of pathogenic organisms, causes of microbial disease, energy and metabolism, Eubacteria, Fungi, algae, viruses, bacterial growth, microbial environments (earth, air, water, extreme), detection, enumeration, and identification.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): CHE 115 and 115L,or 130

BIO 205 - Human Microbiology

Units: 3
When Offered: Fall, Spring, Summer
A study of microorganisms with special emphasis on bacteria and viruses in the human environment. Should be taken with Human Microbiology Lab.
Grade Type: Letter Grade

BIO 205L - Human Microbiology Lab

Units: 1
When Offered: Fall, Spring, Summer
This laboratory experience is meant to demonstrate and reinforce topics covered in Human Microbiology. Students will gain hands-on experience in various microscopy, staining, and culture techniques that will be applied to the identification and classification of various microorganisms.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): BIO 205

BIO 302 - Ecology with Lab

Units: 4
When Offered: Spring
The study of the interrelations of plants and animals in relation to the environment. Field study and local ecology are emphasized.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): BIO 114, 143, or 146

BIO 305 - Microbiology with Lab

Units: 4
When Offered: Fall, Spring
A general survey of microorganisms with an emphasis on bacteria. The study includes morphologic characteristics, growth, reproduction, metabolism, genetics and taxonomy of bacteria; a general survey of viruses, fungi, protozoans and algae; and microbiology of food, water, soil and industry. Mechanisms of pathogenesis and control of microorganisms of human relevance will also be introduced.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 146 or 153. (Recommend: High school Chemistry or CHE 102)

BIO 313 - Genetics

Units: 4
When Offered: Fall, Spring
The principles of genetics including Mendelian, nature of genetic materials, chromosome mechanics, genetic recombination, and gene action. Emphasis will be placed on the transmission of genetic factors.
Grade Type: Letter Grade
Prerequisite(s): BIO 146

BIO 316 - Comparative Anatomy with Lab

Units: 4
When Offered: As offered
A comparative study of the functional anatomy of the vertebrates; laboratory dissection of representative vertebrates (spiny dogfish, mud puppy, cat).
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 148

BIO 324 - Developmental Biology with Lab

Units: 4
When Offered: Fall, Spring
Descriptive and experimental study of the vertebrate embryonic development.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 146

BIO 330 - Cell and Molecular Biology with Lab

Units: 4
When Offered: Fall, Spring

An examination of the structure, ultrastructure, organization, and functions of cells, with emphasis on bioenergetics, membranes, organelles, genes and gene regulation, genetic control of cell division and differentiation, structure and function of biological macromolecules, particularly nucleic acids and proteins. Mechanisms of DNA replication and repair, transcription and translation will be studied, in addition to bacteriophage and eukaryotic virus biology, mobile genetic elements and genetic engineering.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 146 and 148. (Recommend: CHE 125 and 125L)

BIO 344 - Vertebrate Physiology with Lab

Units: 4
When Offered: Spring
Principles of physiology and the function of vertebrate organ systems with emphasis on human.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 148, CHE 115, and CHE 115L

BIO 353 - Advanced Human Anatomy and Physiology I with Lab

Units: 4
When Offered: Fall
This courses is designed for students with a primary interest in careers in medicine, dentistry, and other allied healthcare professions, and graduate education in biological sciences and biochemistry. Included is the detailed study of histology and structure and function of the integumentary, skeletal, muscular, nervous and endocrine systems, correlated by laboratory experience and demonstration. Lab will incorporate current selected relevant peer-reviewed scientific literature and problem-based learning to facilitate students' introductory knowledge of common pathologies, diagnoses, and treatment, along with integration of virtual human cadaver (anatomage) and advanced physiology equipment.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 146, 148, CHE 125 and 125L

BIO 363 - Advanced Human Anatomy and Physiology II with Lab

Units: 4
When Offered: Spring
This course is a continuation of BIO 353 and includes the detailed study of the cardiovascular system, respiratory system, immune and lymphatic systems, gastrointestinal system, urinary system, and reproductive systems, correlated with laboratory experience and demonstration. Lab will incorporate current selected relevant peer-reviewed scientific literature and problem-based learning to facilitate students' introductory knowledge of common pathologies, diagnoses, and treatment, along with integration of virtual human cadaver (anatomage) and advanced physiology equipment.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 353

BIO 380 - Biology Seminar

Units: 1
When Offered: Fall, Spring
This course will introduce and reinforce the skills necessary to perform biological research including discussions of the scientific method, literature research, reading scientific journal articles, analyzing scientific data, reporting research

findings in both written and visual formats, critiquing original research, and science ethics. It will also explore field work opportunities available for students. Each student will be required to present a research proposal and/or locate and prepare all necessary documents for entering an internship, field work, or research opportunity.
Grade Type: Letter Grade
Prerequisite(s): Biology major

BIO 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

BIO 400 - Invertebrate Zoology with Lab

Units: 4
When Offered: As offered
Particular attention is given to taxonomy, morphologic adaptations, ecology, reproduction, and evolutionary relationships of invertebrates.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): BIO 146 or 148

BIO 412 - Topics in Biology

Units: 1-4
When Offered: As offered
This class deals with research projects and topics of current or historical interest which are not normally covered in other established courses. Content variable from year to year.
Repeatable: May be repeated for a maximum of twelve (12) units with change in topic
Grade Type: Letter Grade

BIO 425 - Cancer Biology

Units: 4
When Offered: Spring
The overall goal of this course is to increase the student's awareness of the molecular, cellular, and genetic mechanisms that lead to cancer formation. This course specifically focuses on the regulation of signal transduction pathways, cell cycle entry and progression, programmed cell death, and ultimately the behavior of cancer cells as they metastasize leading to a terminal disease. Lecture with discussion.
Grade Type: Letter Grade
Prerequisite(s): BIO 146, and 330 or CHE 443

BIO 430 - Laboratory Techniques in Molecular Biology

Units: 2
When Offered: Spring
This laboratory-based course is designed for each student to gain a fundamental knowledge of molecular biology techniques that are regularly used in a research lab setting.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): BIO 330 and CHE 443

BIO 435 - Proteomics, Genomics, and Bioinformatics with Lab

Units: 4
When Offered: Spring
This course introduces students to concepts in molecular and genetic basis of cellular processes and the inferences made of these processes through genome and protein database analysis and modeling. Emphasis will be placed on theoretical and experimental approaches used to gain insights in genome structure and function through the use and application of web-based bioinformatics tools developed from advances in the human genome project.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): BIO 330 or CHE 443

BIO 440 - Pharmacology with Discussion

Units: 4
When Offered: Fall
This course will introduce the student to basic and clinical pharmacology as related to the promotion of health and alleviation of disease. The course will consider drug absorption, distribution, metabolism, elimination, and pharmacodynamic effects on the human body. Prescription drug classification, function and uses will be introduced with emphasis on the impact medically prescribed drug classification, function and uses will be introduced with emphasis on the impact medically prescribed drugs will have on the patient. Students will increase their understanding of drug design and action, as well as their understanding of disease and pharmacotherapeutic treatment.
Grade Type: Letter Grade
Prerequisite(s): BIO 330, and either 344, 353, or both 153 and 163

BIO 489 - Immunology and Molecular Pathogenesis with Lab

Units: 4
When Offered: Spring
This course is designed for upper division biology students, particularly those enrolled in the pre-medical and pre-health sciences. Various aspects of the immune system, including the cellular, molecular, and physiological aspects of innate and antibody and cell-mediated adaptive immunity, as they relate to pathogenesis will be covered in the course.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): BIO 146 and 148. (Recommend: BIO 305 and 330)

BIO 490 - Senior Research in Biology

Units: 1-4
When Offered: Fall, Spring, Summer
This class focuses on laboratory research projects and topics of current or historical interest that are not normally covered in other established courses. Content varies from year to year, and determined by both instructor and student's interest.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade
Prerequisite(s): BIO 148, Sophomore status, and permission of the Department Chair

BIO 491 - Internship in Biology

Units: 1-4
When Offered: As offered
Under the advisement of a faculty member and supervising professional, the student will work or otherwise actively participate in a work/volunteer setting related to their major in Biology. This can be in an industrial, research, healthcare, or other approved setting. Variable (1-4) units can be earned in any one semester.
Repeatable: May be repeated for a maximum of six (6) units

Grade Type: Letter Grade
Prerequisite(s): Biology major and Junior or Senior status

BIO 499 - Biology Capstone

Units: 2
When Offered: Fall, Spring
This course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained by participating in a research or internship opportunity prior to this course. Students will prepare a presentation (both written and oral) that will focus on that experience.
Grade Type: Letter Grade
Prerequisite(s): Biology or Biomedical Sciences major and Junior status

BUS 101 - Introduction to Business

Units: 3
When Offered: Fall, Spring
Introduces students to various business disciplines, provides an overview of each function's role in an organization and explores the various career opportunities available within each of these disciplines.
Grade Type: Letter Grade

BUS 200 - Special Topics in Business

Units: 3
When Offered: As offered
This course offers a concentration upon a specific topic in the field of business. The topic varies by semester. It may be taken multiple times with change in topic.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

BUS 212 - Economics, Life, and Society

Units: 3
When Offered: Fall, Spring
A fascinating exploration of current topics affecting our daily lives, including standard of living, poverty and inequality, healthcare, education, work and labor, housing, family structure, financial and credit markets, food and agriculture, energy, trade and globalization, and environmental concerns, through an integrated lens of economics, politics, social structures, and ethics, by introducing the historical background, asking critical questions, evaluating information, and developing grounded worldviews.
Grade Type: Letter Grade

BUS 217 - Microeconomics

Units: 3
When Offered: Fall, Spring, & OPS
This course studies economic behavior at the individual level. Topics include decision-making processes of households and firms, supply and demand, elasticity, and marginal analysis. Market structure and public policy are examined to evaluate their impact on economic welfare and the allocation of scarce resources.
Grade Type: Letter Grade

BUS 218 - Macroeconomics

Units: 3
When Offered: Fall, Spring, & OPS
This course offers a common sense approach to economics, covering basic economic laws and how they apply to our

world and everyday life. The course focuses on the overall economy and economic theories that offer explanations for its fluctuations and changes. Also, the course is designed to give the student a sufficient grounding in the terminology, basic concepts, and issues of economics to stimulate interest in further study and provide background in business.
Grade Type: Letter Grade

BUS 237 - Management Based on Biblical Principles

Units: 3
When Offered: Fall, Spring
In this course students learn to identify and apply effective management and leadership behaviors based on principles found in the Bible. This course will equip each student with skills in making biblically-informed choices in realistic business scenarios.
Grade Type: Letter Grade

BUS 291 - International Business Practicum Prep I

Units: 1
When Offered: Fall
This class is designed to prepare students for their international internship. It focuses on developing a four year career road-map, career counseling, and developing goals for the students international business internship program.
Grade Type: Letter Grade
Fee: Additional practicum fee

BUS 292 - International Business Practicum Prep II

Units: 1
When Offered: Spring
This class is designed to prepare students for their international internship. It focuses on building the tools a student needs to be successful for finding the career of their choice. Students will develop a resume and cover letter, build a Linked-in profile, update career goals, and engage in a mock interview.
Grade Type: Letter Grade
Fee: Additional practicum fee
Pre- or Co- Requisite(s): BUS 291

BUS 303 - Business Finance

Units: 3
When Offered: Fall, Spring, & OPS
This course provides an introduction to the principles of financial management. It includes an overview of financial management, financial analysis and control, capital investment decisions, raising funds and cost of capital, sources of long-term funds and cash management principles.
Grade Type: Letter Grade
Prerequisite(s): ACC 250 or 350, and CIS 270

BUS 315 - Business Statistics

Units: 3
When Offered: Fall, Spring, & OPS
This course includes the assembling and presentation of statistical data, probability distributions, sampling techniques, and statistical analysis. A project with practical problem solving is required.
Grade Type: Letter Grade
Prerequisite(s): CIS 270, and MAT 115, 123 or higher or STA 144

BUS 334 - International Business

Units: 3
When Offered: Fall, Spring, & OPS
An introduction to international business which will expose students to major international business issues, including international trade, cultures, economics, marketing, and communication issues of multinational corporations.
Grade Type: Letter Grade

BUS 337 - Management with Biblical Foundation

Units: 3
When Offered: OPS
A study of management and decision-making principles with a strong emphasis on integrating a biblical foundation. Key biblical principles of business and administration are studied.
Grade Type: Letter Grade

BUS 341 - Operations Management

Units: 3
When Offered: OPS
The course focuses on the systematic planning, design, and operations of the business process that ultimately impacts the management of production and the delivery of goods and services to end-users. Particular emphasis will give an overview of the business processes, and outlines and supports the understanding of how a business operates. The topics of the course will cover the tactical and strategic sourcing relationships of resources including supply aspect, purchasing, procurement, forecasting, inventory control, quality, sustainability, work-in-process, and negotiations that provide management with the tools to deliver goods and services to end-users.
Grade Type: Letter Grade

BUS 343 - Human Resource Management

Units: 3
When Offered: Spring & OPS
This is a survey of the principles and practices involved in supervising employees and administering personnel programs. It includes the study of human resource planning, recruitment, selection, training and development, and compensation and benefits.
Grade Type: Letter Grade

BUS 349 - Communication Strategy in Management

Units: 3
When Offered: OPS
A study of communication theory applied to organizational management and leadership. Students will develop, practice, and apply skills and techniques of communication strategy essential to external and inter-organizational communication, interpersonal and group communication, and written and oral communication.
Grade Type: Letter Grade

BUS 352 - Global Supply Chain Management

Units: 3
When Offered: Spring & OPS
The course focuses on the design and management of global supply chain systems that vary in size, thus aiding in the understanding of how to develop assets and configure processes in a firm's supply chain that enable the firm to develop operational competencies that are aligned with competitive strategies to manage the global supply chain. Particular emphasis will focus on the processes that facilitate the structure, development, and management of a global supply chain.
Grade Type: Letter Grade

BUS 356 - Business Communication

Units: 3
When Offered: Fall, Spring
This course emphasizes individual, interpersonal and intercultural communication concepts. Special emphasis is placed on the various functions of communication concepts in a business environment.
Grade Type: Letter Grade

BUS 358 - Business Law

Units: 3
When Offered: Fall, Spring, & OPS
This course covers the law of sales, employment, contracts, negotiable instruments, agency and partnerships, corporations, insurance, real and personal property, estates, and bankruptcy.
Grade Type: Letter Grade

BUS 359 - Intellectual Property Law

Units: 3
When Offered: As offered
The course will examine technology policy, patent law, trademark law, copyright law, trade secrets, intrusions on privacy and other personal rights, biotechnology, e-commerce, important contract issues for technology companies, tort liabilities for physical and economic harms, antitrust and anticompetitive conductor.
Grade Type: Letter Grade

BUS 363 - Microfinance

Units: 3
When Offered: Spring (odd years)
This course examines microfinance as a business oriented tool to help alleviate global poverty so that sustainable, systematic change might occur. Students will define and explore the growing practice of microfinance and its impact here in the United States and around the world. Emphasis is on using microfinance tools, business strategies, and innovation to address the social and economic problems.
Grade Type: Letter Grade

BUS 374 - Entrepreneurial Finance

Units: 3
When Offered: As offered
An overview of financial principles as they apply to the entrepreneurial environment. Topics covered include an introduction to the financial environment for entrepreneurs, development of business and financial plans, organizing and financing a new venture, measuring and evaluating financial performance, obtaining financing, creating value, and structuring for growth. Additional topics will be included as applicable to the entrepreneurial environment.
Grade Type: Letter Grade
Prerequisite(s): BUS 303

BUS 380 - Business Analytics Visualization and Strategy

Units: 3
When Offered: Fall (odd years)
This course teaches strategies for visual analyses of business data to inform business strategies across a variety of industries. Students will learn how to create and interpret charts, graphs, infographics, interactive dashboards and communicate the visual insights to customers and employers. A variety of visualization tools will be used for practice and preparation for industry certifications, e.g. SAS, Tableau, GIS.

Grade Type: Letter Grade
Prerequisite(s): BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

BUS 381 - Spatial Analytics in Business

Units: 3
When Offered: Fall, Spring (even years)
This course trains students in developing spatial analyses for business decisions and strategy across a variety of industries, e.g. business, logistics, real estate, healthcare, marketing analytics, finance. Students will learn how to perform market and customer segmentation, identify patterns in consumer behavior and how they change over time, and others. This course prepares towards SAS, Tableau, GIS certification and is ideal for students who wish to have careers requiring analytics, strategy and/or consulting.
Grade Type: Letter Grade
Prerequisite(s): BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

BUS 391 - International Business Practicum Prep III

Units: 1
When Offered: Fall
This class is designed to prepare students for their international internship. It focuses on building the tools a student needs to be successful in finding the career of their choice. Students will refine their cover letter, resume, and Linked-In profiles. In addition, students will complete a mock-interview and attend a career fair. Students will also select and familiarize themselves with their chosen international internship location.
Grade Type: Letter Grade
Fee: Additional practicum fee
Pre- or Co- Requisite(s): BUS 292

BUS 392 - International Business Practicum Prep IV

Units: 1
When Offered: Spring
This class is designed to prepare students for their international internship. It focuses on building the tools a student needs to be successful in finding the career of their choice. Students will learn standards of etiquette and behavior for traveling abroad, be prepared with financial understanding for the internship, complete the internship application and pre-departure orientation and understand the internship location, industry, and logistics.
Grade Type: Letter Grade
Fee: Additional practicum fee
Pre- or Co- Requisite(s): BUS 391

BUS 393 - International Business Internship Practicum

Units: 3
When Offered: Summer
This course facilitates student learning and professional development while students participate in an 8-week international internship. It provides a framework for students to reflect on and analyze the specific skills gained throughout their international internship. This course also supports student self-awareness and personal growth in a cross-cultural context.
Grade Type: Letter Grade
Prerequisite(s): BUS 392

BUS 398 - Study Abroad

Units: 3
When Offered: As offered
Under faculty supervision, the student will study abroad in a business emphasis area. This is an opportunity for students

to learn business principles in a non-U.S. setting and to explore varying world views.
Grade Type: Letter Grade
Fee: Additional trip fee(s)
Prerequisite(s): Permission of the Dean

BUS 399 - Independent Study

Units: 3
When Offered: As offered
This course provides for individual study, seminar, and internship approaches to the study of business. Experimental education is encouraged. Student consulting to small businesses is often undertaken.
Grade Type: Letter Grade

BUS 400 - Special Topics in Business

Units: 3
When Offered: As offered
This course offers a concentration upon a specific topic in the field of business. The topic varies by semester.
Repeatable: May be repeated for a maximum of twelve (12) units with change in topic
Grade Type: Letter Grade

BUS 435 - Leadership in Organizations

Units: 3
When Offered: Spring (even years)
This course examines the basic concepts, theories, nature and practices of leadership and leadership behavior. A major assumption of the course content is that there is a difference between management and leadership, a difference succinctly characterized in the observation. "Lead people; manage things." An emphasis on integrating biblical principles and leadership will also be studied. Real-world applications are done through extensive case studies. Students completing this course for credit may not also earn credit for LDR 310.
Grade Type: Letter Grade

BUS 440 - Quantitative Business Analysis

Units: 3
When Offered: Fall, Spring, & OPS
This course explores quantitative methods utilized in business decision-making, with an emphasis placed on problem solving and evaluation, as well as applications in marketing, finance, accounting, and operations. Topics may include decision analysis, linear programming, forecasting techniques, statistical process control, and inventory models. A project with practical problem solving is required.
Grade Type: Letter Grade
Prerequisite(s): BUS 315

BUS 452 - Logistics Planning and Controlling

Units: 3
When Offered: OPS
The course focuses on management techniques with analytical framework needed to solve problems associated with a firm's logistics planning and control. The course covers the core competencies to manage the planning, implementing, controlling, and distributing of goods and services for a firm. This course will address topics of production planning and scheduling, inventory management, and the design and management of supply and distribution networks.
Grade Type: Letter Grade

BUS 454 - International Management

Units: 3
When Offered: Spring
This course examines the role of the manager in the international management environment and explores the foundation of international management, the role of culture in managing internationally, and international organizational behavior issues with a focus on managing international risk and strategic planning in all areas of management.
Grade Type: Letter Grade
Prerequisite(s): BUS 334

BUS 457 - Negotiation and Conflict Resolution

Units: 3
When Offered: Fall
The course incorporates "real world" negotiation cases, practical bargaining tactics, as well as personal and interpersonal negotiation skills development. Students will complete several negotiation self-awareness instruments and develop a negotiation skills strategy. This course emphasizes the stages of negotiation, bargaining, power structure, and cultural differences at the individual, team, and organizational levels. The course emphasizes the various functions of negotiation theory, conflict resolution, and best practices across multiple industries, such as business, law, education, engineering, psychology, entertainment, and public administration.
Grade Type: Letter Grade

BUS 463 - Business and Organizational Management

Units: 3
When Offered: Fall, Spring, & OPS
This course is the study of management theories and the functional concepts of leadership, planning, and decision making. Special emphasis is placed on quality issues, globalism, diversity, ethics, productivity, motivation, skill development, and human resource management. An emphasis on integrating biblical principles and leadership will also be studied.
Grade Type: Letter Grade

BUS 464 - Family Business Management

Units: 3
When Offered: Spring (odd years)
The study of the unique issues faced by family owned and operated businesses. Theoretical foundations, differences between family and non-family firms, generational differences, succession, estate planning, family meetings, conflict management strategies, and boards of directors will be discussed.
Grade Type: Letter Grade

BUS 474 - International Business Finance

Units: 3
When Offered: Fall
Interpretation of finance principles from an international perspective. Topics include overview of the international monetary system, balance of payments, world financial markets and institutions. Additionally, management issues for multi-national firms are covered, including cost of capital, multinational cash management, and tax issues.
Grade Type: Letter Grade
Prerequisite(s): BUS 303

BUS 475 - Project and Team Management

Units: 3
When Offered: Fall (even years) & OPS
This course focuses both on general management theory and specific project and team practices useful in the rapidly

shifting environment of technology. Particular emphasis is given to the range of diverse techniques required to meet the challenges of managing teams to the successful completion of technology projects in the contemporary workplace. A comprehensive project will be completed in a group setting using Project Management theory and techniques.
Grade Type: Letter Grade

BUS 480 - Business Models and Analytics

Units: 3
When Offered: Fall (even years)
This course teaches business models to explore and predict specific applied business environments, e.g. customer retention, consumer decisions, sales forecasting, text analytics, etc. Concepts combine application of business models and strategy for marketing, finance, production, process, and managerial targets. This course is ideal for students who prepare for careers requiring analytics, strategy and/or consulting and prepares for industry certifications, e.g. SAS, Tableau, GIS.
Grade Type: Letter Grade
Prerequisite(s): BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

BUS 481 - Design Thinking in Business Analysis

Units: 3
When Offered: Spring (odd years)
This course teaches how to develop business analytics that improve customer experiences and meet employers' expectations. Students will learn design thinking strategies to identify hidden customer needs, define problems and opportunities, elicit and gather project requirements. They will then practice aligning these user needs with analytics models and tie them into a winning business strategy. This course is ideal for students who prepare for careers requiring analytics, strategy, and/or consulting for a variety of industries.
Grade Type: Letter Grade
Prerequisite(s): BEH 290, BUS 315, CJS 481, EGR 305, or STA 144

BUS 485 - Business Policy and Strategy

Units: 3
When Offered: Fall, Spring, & OPS
This is an integrative study of senior management functions using advanced case analysis, focusing on general management and decision making. Topics include setting objectives; implementing, supporting, and controlling organization-wide policies; developing strategies to achieve objectives; setting standards for measuring performance; evaluating and reformulating policies in response to change; and fulfilling leadership responsibilities.
Grade Type: Letter Grade
Prerequisite(s): BUS 303, 463 or ENT 462, and MKT 333

BUS 489 - Business Practicum

Units: 1-3
When Offered: As offered
Students will apply business knowledge to collaboratively complete a designated project for an outside organization.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

BUS 491 - Internship in Business

Units: 1-3
When Offered: Fall, Spring, Summer
Under faculty supervision, the student will be assigned to a business or non-profit organization in an emphasis area (Business Technology, Marketing, Management). This is an opportunity for field experience in applying business

principles.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

BUS 496 - Foundations of Business Management

Units: 3
When Offered: As offered
This is a foundational course for all MBA students. It is designed to ensure all MBA students have the knowledge and skills required to be successful in the MBA program. Students will be required to demonstrate competency in finance, global business, economics, organizational behavior, operations management, human resources, ethics, and law. This course will also help students bridge the scholar-practitioner divide through teaching research and critical thinking skills needed to be successful in the program.
Grade Type: Letter Grade
Prerequisite(s): Permission of the MBA Program Director

BUS 497 - Organizational Dynamics of the New Millennium

Units: 3
When Offered: As offered
The course examines evidence based principles, methods, and techniques found useful in designing, managing, and leading a 21st century organization. Topics include motivation, productivity, organizational design, corporate culture, benefits and rewards, decision making, stress, conflict, diversity, ethics, groups, teams, and power and politics.
Grade Type: Letter Grade
Prerequisite(s): Permission of the MBA Program Director

CHE 101 - Orientation to the Discipline

Units: 1
When Offered: Fall, Spring
This course is designed to introduce students to the basic skills necessary for academic success in the discipline of Chemistry and to provide students with an overview of professions in which the major may be applied.
Grade Type: Pass/Fail
Prerequisite(s): Declared Major in Chemistry, Biochemistry and Molecular Biology, or Forensic Chemistry

CHE 102 - Fundamentals of Chemistry

Units: 3
When Offered: Fall, Spring, Summer, & OPS
A review of fundamental topics in chemistry including units of measurements, classifications of matter, atomic and molecular structure, bonding, the periodic table, chemical reactions, solutions, gases, and energy.
Grade Type: Letter Grade

CHE 112 - Organic and Biochemistry for Health Sciences

Units: 3
When Offered: Fall, Spring, Summer
A survey of Organic and Biochemistry topics with special emphasis on metabolic processes and applications to medicine and health. Should be taken with CHE 112L - Organic and Biochemistry for Health Sciences Lab.
Grade Type: Letter Grade
Prerequisite(s): CHE 102, or 115 and 115L

CHE 112L - Organic and Biochemistry for Health Sciences Lab

Units: 1
When Offered: Fall, Spring, Summer
A laboratory experience designed to illustrate and reinforce topics covered in Organic and Biochemistry for Health Sciences and introduce students to laboratory experiments and equipment that are foundational to the study of these disciplines.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): CHE 112

CHE 115 - General Chemistry I

Units: 3
When Offered: Fall, Spring
A study of inorganic chemical systems including properties of atoms, molecules and ions, composition of matter, solutions, stoichiometry, thermochemistry, gas laws, electronic structure of elements, chemical bonding and molecular geometry. Course content is presented at a level required for Chemistry and related science majors.
Grade Type: Letter Grade
Lecture: 3 units
Prerequisite(s): CHE 102 or high school chemistry

CHE 115L - General Chemistry I Lab

Units: 1
When Offered: Fall, Spring
A laboratory experience designed to illustrate and reinforce topics covered in General Chemistry I and introduce students to laboratory practices, experiments and equipment that are foundational to the study of Chemistry.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): CHE 115

CHE 125 - General Chemistry II

Units: 3
When Offered: Fall, Spring, Summer
A continuation of CHE 115 - General Chemistry I including the study of inorganic chemical systems including liquids and solids, solutions, colloids, kinetics, equilibria, acid-base chemistry, thermodynamics, electrochemistry, and nuclear chemistry. Course content is presented at a level required for Chemistry and related science majors.
Grade Type: Letter Grade
Lecture: 3 units
Prerequisite(s): CHE 115 and 115L

CHE 125L - General Chemistry II Lab

Units: 1
When Offered: Fall, Spring, Summer
A laboratory experience designed to illustrate and reinforce topics covered in CHE 125 - General Chemistry II and continue to introduce students to laboratory practices, experiments, and equipment that are foundational to the study of Chemistry.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): CHE 115L
Pre- or Co- Requisite(s): CHE 125

CHE 130 - Introduction to Chemistry for Engineers

Units: 3
When Offered: As offered
Introductory treatment of matter - its forms, transitions, and interactions - with a focus on chemical, civil, electrical, and mechanical engineering applications.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): CHE 102 or high school chemistry

CHE 200 - Special Topics in Chemistry

Units: 1-3
When Offered: As offered
Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.
Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

CHE 230 - Introduction to Molecular Modeling

Units: 1
When Offered: Spring
The development of computer-generated models to investigate quantitative information about structures, reactivities, and stabilities of molecules.
Grade Type: Letter Grade
Prerequisite(s): CHE 115 and 115L

CHE 321 - Quantitative Chemical Analysis with Lab

Units: 4
When Offered: Fall
A survey of separation and quantitation principles and methods.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 125 and 125L

CHE 341 - Advanced Inorganic Chemistry with Lab

Units: 4
When Offered: Spring (even years)
A study of electronic structure of atoms, bonding and structure of molecules, coordination chemistry, an overview of the chemistry of the elements, the periodic table and periodic trends, transition metal chemistry, including ligand field theory, organometallic chemistry, including catalytic reactions and solid state chemistry.
Grade Type: Letter Grade
Lecture: 3 hours **Lab:** 4 hours
Prerequisite(s): CHE 125, 125L, and MAT 245

CHE 351 - Organic Chemistry I with Lab

Units: 4
When Offered: Fall, Spring, Summer
An integrated mechanistic study of the nomenclature, chemical, and stereochemical properties of aliphatic hydrocarbons.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit

Fee: Additional lab fee
Prerequisite(s): CHE 125 and 125L

CHE 352 - Organic Chemistry II with Lab

Units: 4
When Offered: Fall, Spring
A continuation of CHE 351 covering the major aliphatic and aromatic functional groups. Includes an introduction to spectroscopy.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 351

CHE 399 - Independent Study

Units: 1-3
When Offered: As offered
This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.
Grade Type: Letter Grade

CHE 400 - Special Topics in Chemistry

Units: 1-3
When Offered: As offered
Various appropriate topics of different concentrations are offered each time.
Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

CHE 400L - Special Topics Lab

Units: 1
When Offered: As offered
This laboratory course will be offered in conjunction with the special topics course to provide instruction with hands on experience. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Fee: Additional lab fee
Concurrent Requisite(s): CHE 400

CHE 415 - Physical Chemistry I

Units: 3
When Offered: Fall
A study of thermodynamics, kinetic molecular theory, and kinetics of chemical systems.
Grade Type: Letter Grade
Prerequisite(s): CHE 125, 125L, and MAT 255. (Recommended: MAT 342 or 343)

CHE 416 - Physical Chemistry II with Lab

Units: 4
When Offered: Spring (odd years)
A study of quantum mechanics, molecular structure, and spectroscopy.
Grade Type: Letter Grade

Lecture: 3 hours **Lab:** 4 hours
Fee: Additional lab fee
Prerequisite(s): CHE 125, 125L, and MAT 255
Pre- or Co- Requisite(s): CHE 230

CHE 443 - Biochemistry I with Lab

Units: 4
When Offered: Fall, Spring
A survey of the chemical reactions in living systems. Attention given to enzymes.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 351

CHE 444 - Biochemistry II with Lab

Units: 4
When Offered: Fall
A continuation of CHE 443 - Biochemistry I with Lab including a detailed look at DNA, transcription, translation, protein synthesis, lipid metabolism (e.g., cholesterol synthesis) and amino acid and nucleic acid metabolism.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): CHE 443

CHE 470 - Instrumental Analysis

Units: 4
When Offered: Spring
This course is a study of instrumental methods of analysis including spectroscopic, chromatographic, and electrochemical techniques with emphasis on the theory, design, and applications of various instruments.
Grade Type: Letter Grade
Lecture: 2 units **Lab:** 2 units
Fee: Additional course fee
Prerequisite(s): CHE 321

CHE 475 - Forensic Chemistry with Lab

Units: 4
When Offered: Fall (even years)
This course builds on the students' criminalistics and chemistry foundation to study advanced topics in forensic chemistry. Topics studied are in the areas of: metrology including statistics, quality control, and sampling; chemical foundations including equilibria, partitioning, and instrumentation; drugs and poisons; combustion including explosives and firearms; and materials including colorants, polymers, inks, paints, fibers, and paper.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 470 and SCI 205

CHE 480 - Chemistry Research Seminar

Units: 1
When Offered: Fall
An introduction to performing chemistry research including discussions of the scientific method, literature research, reading scientific journal articles, analyzing scientific data, reporting research findings in both written and visual

formats, critiquing original research, and science ethics. A research proposal will be written by each participant.
Grade Type: Letter Grade
Prerequisite(s): Chemistry or Biochemistry and Molecular Biology major and Junior or Senior status

CHE 485 - Forensic Chemistry Major Capstone

Units: 3
When Offered: Spring
This course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained by participating in a laboratory-based research experience, related hands-on opportunity, or composing a senior thesis. In addition, students will have an opportunity to prepare for professional interviews.
Grade Type: Letter Grade
Prerequisite(s): CHE 475 and Senior status

CHE 490 - Senior Research in Chemistry

Units: 1-4
When Offered: Fall, Spring, Summer
The focus of this class is an independent laboratory research project that the student undertakes under the direction of a faculty member who acts as a research advisor. Content varies from year to year and is determined by both instructor's and students' interests.
Repeatable: May be repeated for a maximum of four (4) units
Grade Type: Letter Grade
Prerequisite(s): CHE 125, 125L, and permission of the Department Chair

CHI 115 - Mandarin Chinese I

Units: 3
When Offered: As offered
An introduction to the sound system and grammar of Chinese with emphasis on speaking, reading, writing and listening comprehension. Classes are conducted in Chinese as much as possible. Students will learn Pinyin system and practice simplified Chinese characters. The class also will contain discussions on Chinese customs and cultural background, which are essential in understanding the language.
Grade Type: Letter Grade

CHI 125 - Mandarin Chinese II

Units: 3
When Offered: As offered
A continuation of CHI 115 - Mandarin Chinese I will continue to be conducted in Chinese as much as possible. Students will practice more on the sound system, and continue to study the grammar of Chinese with emphasis on speaking, reading, writing and listening comprehension. They will learn and practice simplified Chinese characters. The class will contain discussions on Chinese customs and cultural background, which are essential in understanding the language.
Grade Type: Letter Grade
Prerequisite(s): CHI 115

CBS 200 - Special Topics in Christian Behavioral Science

Units: 1-3
When Offered: As offered
An in-depth seminar on a selected topic within Christian Behavioral Science.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

CBS 303 - Marriage and Family in the Christian Community

Units: 3
When Offered: Fall, Spring
A comparison of Marriage and Family systems in Biblical and American cultural perspectives. The course will contrast and compare the foundations of marriage in Western Culture and the Judeo-Christian worldview. Family roles and relational development will also be addressed. Marital adjustment including finances, marital sexuality, communication and parenting will be presented from a Biblical approach.
Grade Type: Letter Grade

CBS 350 - Lifespan Development and Discipleship

Units: 3
When Offered: Spring
This course examines the relationship between human development as it is understood within the Behavioral Sciences and Discipleship as formation, transformation, and reformation within the Judeo-Christian theologies. The content draws on comparisons between Behavioral Science theories of lifespan in comparison with Theological perspectives on learning and maturity in relationship to mental and spiritual health. It further examines development as a biological, cognitive, relational, and spiritual process that moves toward maturity and wisdom in the context of life and life-to-life family, congregation and peer relationships.
Grade Type: Letter Grade

CBS 399 - Independent Study

Units: 1-3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

CBS 400 - Special Topics in Christian Behavioral Science

Units: 1-3
When Offered: Fall, Spring
An in-depth seminar on a selected topic within Christian Behavioral Science. The course will introduce students to the historical and contemporary literature and issues related to the selected topic as well as encourage critical thinking. Specifically, consideration will be given to the differences between a secular and biblical view of the selected topic.
Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

CBS 403 - Congregation and Community

Units: 3
When Offered: Fall
An overview of Christian congregation and community from theological and behavioral science perspectives. Subjects include the function and purpose of Christian Institutions including the household and congregation as a place of discipleship, worship, fellowship and relational reconciliation. Secondary institutions will include Christian media, economics, law and education. The impact of the shift from Christian nationalism to post-Christian America will be addressed.
Grade Type: Letter Grade

CBS 415 - Biblical Wisdom and Human Behavior

Units: 3
When Offered: Fall

A comprehensive examination of the principles for living found in the Biblical Wisdom literature. The principles will be applied to several areas of human behavior including personality development, abnormality and mental health, cognition, emotions, marriage and family life, authority, work, financial management, and citizenship. The implications for personal choices, parenting, counseling, teaching and ministry will be thoroughly considered.
Grade Type: Letter Grade

CBS 420 - Behavioral Implications of Theology

Units: 3
When Offered: Spring
Examination of the behavioral, cognitive, and affective implications of specific doctrinal beliefs. Systematic theology is interpreted as a basis for understanding human behavior. Subjects include bibliology (Bible), theology (God), soteriology (salvation), hamartiology (sin), ecclesiology (church), and anthropology (man), with particular attention to application in Christian education and counseling.
Grade Type: Letter Grade

CBS 423 - Models of Christian Counseling

Units: 3
When Offered: Spring
An examination of current Christian-oriented counseling approaches toward the development of a personal integrated model of counseling that is distinctly Christian. The models will be considered in light of the essentials of a biblical theology of counseling. Further attention will be given to understanding the differences between clinical and congregational approaches to counseling.
Grade Type: Letter Grade
Prerequisite(s): BEH 333

CBS 433 - Foundations of Pastoral Counseling

Units: 3
When Offered: Fall (odd years)
This course will introduce the student to ministerial counseling at the relational, theological and practical levels. The student will understand the place of counseling in ministry and discipleship and will be exposed to the major areas of counseling that is found in a religious and congregational context. In addition, the student will be exposed to the integration of theology and Behavioral Science theory and methods to both compare and contrast these approaches.
Grade Type: Letter Grade

CBS 499 - Senior Project: Christian Behavioral Science

Units: 3
When Offered: As offered
A special project paper to be researched and written during the senior year that addresses a specific focus of Christian Behavioral Science. This course cannot be taken if more than two other courses in major are not completed. The format is a guided-study under the direction of at least two professors from the College of Behavioral and Social Sciences. The final project will approximate a journal article and should be of such content and format to be submitted for publication.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

CST 100 - Overview of the Bible

Units: 3
When Offered: OPS
A general survey of the Hebrew Bible and the Christian writings (New Testament) with special emphasis to the religious and national life of the Hebrew people, the life of Jesus, and the development of the early church. An Online

and Professional Studies requirement for Online and Professional Studies degree programs only.
Grade Type: Letter Grade

CST 110 - Old Testament Survey

Units: 3
When Offered: Fall, Spring
A survey of the books of the Old Testament and their theological contribution to the overall storyline of the Bible. Attention is also given to the historical and cultural context of ancient Israel. Fulfills general education requirement for non-Christian Studies majors.
Grade Type: Letter Grade

CST 130 - New Testament Survey

Units: 3
When Offered: Fall, Spring
A survey of the books of the New Testament and their contributions to the overall storyline of the Bible. Special attention is given to the life of Jesus and the development of the early church in their historical, cultural, and theological settings. Fulfills general education requirement for non-Christian Studies majors.
Grade Type: Letter Grade

CST 200 - Special Topics in Christian Studies

Units: 3
When Offered: As offered
An examination of specific areas of Christian studies such as theology, Bible, missions, hermeneutics, Christian philosophy, etc.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

CST 210 - Pentateuch and Former Prophets

Units: 3
When Offered: Fall & OPS
This class examines the books of Genesis - Kings (as listed in the Hebrew canon) with special attention given to the theological contributions each book provides for the overall shape of the Old Testament. The historical background of Israel and the Ancient Near East will also be considered. Core requirement for Applied Theology or Christian Studies majors.
Grade Type: Letter Grade

CST 220 - Latter Prophets and Writings

Units: 3
When Offered: Spring & OPS
This class examines the books of Isaiah - 2 Chronicles (as listed in the Hebrew canon) with special attention given to the theological contribution each book provides for the overall shape of the Old Testament. The literary structure of each book and the cultural background of Israel and the Ancient Near East will also be considered. Core requirement for Applied Theology or Christian Studies majors.
Grade Type: Letter Grade

CST 230 - Jesus and the Gospels

Units: 3
When Offered: Fall & OPS
An investigation of the testimony provided by the Gospels concerning the life of Jesus of Nazareth, with special

attention given to the critical issues prompted by such study. Core requirement and prerequisite for upper division Gospel courses (CST 330, CST 331) for Christian Studies majors.
Grade Type: Letter Grade

CST 240 - Paul and the Early Church

Units: 3
When Offered: Spring & OPS
An introductory consideration of the incidents, individuals, and issues included in the historical, epistolary, and apocalyptic portions of the New Testament. Core requirement and prerequisite for upper division Pauline courses (CST 440, CST 441) for Christian Studies majors.
Grade Type: Letter Grade

CST 300 - History of Baptist Thought

Units: 3
When Offered: Fall, Spring, & OPS
An examination of Baptist history and doctrine with respect to other Christian denominations and non-denominational churches. Attention will be given to the global impact of Baptists through local church renewal, promotion of religious liberty, participation in missions, and biblical fidelity. Core requirement for Applied Theology students, Christian Studies majors and minors.
Grade Type: Letter Grade

CST 301 - The Christian Life

Units: 3
When Offered: OPS
A survey of basic Christian beliefs and how those beliefs inform and direct daily living in the modern context. Students will spend time examining a decidedly Christian worldview and how such a worldview is reflected in personal and community life.
Grade Type: Letter Grade

CST 302 - Foundations of Christian Thought

Units: 3
When Offered: OPS
An introduction and primer to Christian theology with special emphasis on identifying the importance and development of a Christian worldview, understanding the doctrine of scripture and biblical authority, learning to do theology, comprehending the relationship between truth, faith and reason, and applying a biblical worldview to the Christian life.
Grade Type: Letter Grade

CST 307 - Deaf Ministry

Units: 3
When Offered: Fall, Spring
Demographic and congregational studies suggest that only a fraction of the deaf population has been effectively evangelized in their own primary language. Students will learn practical methods of communicating the gospel to the deaf population using a cultural-linguistic model for deaf ministry.
Grade Type: Letter Grade
Prerequisite(s): Previous Biblical Studies coursework

CST 310 - Old Testament Exegesis

Units: 3
When Offered: Fall (odd years)

A study of one or more Old Testament books emphasizing the development of skill in exegesis. Special attention will be given to literary structure, word analysis, cultural context, and theological considerations as guides for interpretation.
Grade Type: Letter Grade
Prerequisite(s): CST 110, 210, or 220

CST 311 - New Testament Exegesis

Units: 3
When Offered: As offered
A study of one or more New Testament books emphasizing the development of skill in exegesis. Special attention will be given to literary structure, word analysis, cultural context, and theological considerations as guides for interpretation.
Grade Type: Letter Grade
Prerequisite(s): CST 130, 230, or 240

CST 315 - Old Testament Ethics

Units: 3
When Offered: Spring (even years)
This course provides the student an opportunity to investigate the ethics inside the Old Testament, as well as asking and answering the question of the place of Old Testament ethics in the life of a believer in God post New Testament.
Grade Type: Letter Grade
Prerequisite(s): Previous Old Testament coursework

CST 330 - The Gospel According to John

Units: 3
When Offered: As offered
An intensive investigation of the Fourth Gospel, highlighting the significance of its literary structure and its rich theological and thematic texture.
Grade Type: Letter Grade
Prerequisite(s): CST 130 or 230

CST 331 - The Parables of Jesus

Units: 3
When Offered: As offered
An intensive study of the background and Jesus' use of the parabolic mode of teaching as a dynamic vehicle, then and now, for communicating truth about the kingdom of God.
Grade Type: Letter Grade
Prerequisite(s): CST 130 or 230

CST 350 - Biblical Interpretation

Units: 3
When Offered: Fall, Spring, & OPS
A historical and theoretical consideration of interpretative methodology as illustrated by and applied to selected texts from various portions of the biblical materials. Core requirement for Christian Studies majors and minors.
Grade Type: Letter Grade
Prerequisite(s): Previous Biblical Studies coursework

CST 360 - Church History

Units: 3
When Offered: Fall, Spring, & OPS
A survey of the development of the Christian church from the close of the New Testament period to the present time, with special attention to the origin of various denominations. Core requirement for Christian Studies majors and minors.
Grade Type: Letter Grade

CST 370 - The Christian Faith

Units: 3
When Offered: Fall, Spring
An exploration of the biblical truths of Scripture, God, humanity, sin, Jesus, the Holy Spirit, salvation, the Christian life, the church, and the life to come. Students will examine each major doctrine and understand its place in the biblical story.
Grade Type: Letter Grade

CST 381 - Christian Missions

Units: 3
When Offered: OPS
An examination of the issues faced by today's Christian missionaries, including divine call, recruitment, theological issues, cultural problems, political involvement, methodology, and indigenization. Student involvement in missions-related activities is expected.
Grade Type: Letter Grade

CST 383 - Ministry with Youth

Units: 3
When Offered: Spring (odd years)
This class focuses on foundational issues related to adolescents with application to the local church. Student involvement in youth ministry is expected.
Grade Type: Letter Grade
Prerequisite(s): Previous Biblical Studies coursework

CST 399 - Independent Study

Units: 1-3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Courses listed in the catalog may not be taken as independent study.
Grade Type: Letter Grade

CST 400 - Special Topics in Christian Studies

Units: 3
When Offered: Fall, Spring (even years)
An examination of specific areas of Christian studies (theology, Bible, missions, etc.).
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

CST 410 - Special Topics in Old Testament

Units: 3
When Offered: As offered
An examination of specific area(s) of Old Testament study.

Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): Previous Old Testament coursework

CST 411 - Special Topics in New Testament

Units: 3
When Offered: As offered
An examination of specific area(s) of New Testament study.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): Previous New Testament coursework

CST 412 - Special Topics in Theology

Units: 3
When Offered: As offered
An examination of specific area(s) of Theology.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): Previous Theology coursework

CST 413 - Special Topics in Church History

Units: 3
When Offered: As offered
An examination of specific area(s) of Church History.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): Previous Church History coursework

CST 414 - Special Topics in Christian Ministry

Units: 3
When Offered: As offered
An examination of specific area(s) of Christian Ministry.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): Previous Christian Ministry coursework

CST 421 - Biblical History of Israel

Units: 3
When Offered: Fall (even years)
This course is an introduction to the history, historiography, and scholarship surrounding the biblical portrait of Israel from their origin to their return from exile.
Grade Type: Letter Grade
Prerequisite(s): Previous Old Testament coursework

CST 425 - Christian Social Ethics

Units: 3
When Offered: Fall, Spring, & OPS
This course will explore perennial social ethics issues as they relate to Christian faith and life. Topics include key social problems, the Church's historical responses to those issues, and the biblical teachings with regard to core Christian

doctrines (e.g., creation, fall, redemption, image of God, neighbor love). Standard models of Christian engagement in society with respect to the individual believer, the local church, and the global Christian Church will also be considered.
Grade Type: Letter Grade
Prerequisite(s): 3 units of Biblical Studies or ICS 105 or 305

CST 440 - Romans

Units: 3
When Offered: As offered
A study of Paul's most systematic and influential epistle, presenting his exposition of the "Righteousness of God" and its consequences for a Christian ethos.
Grade Type: Letter Grade
Prerequisite(s): CST 130 or 240

CST 441 - The Corinthian Correspondence

Units: 3
When Offered: As offered
An intensive investigation of the most "problem-oriented" of the Pauline letters. Special attention given to the cosmopolitan sociological environment of Corinth and to the resolution of church conflict.
Grade Type: Letter Grade
Prerequisite(s): CST 130 or 240

CST 442 - Revelation

Units: 3
When Offered: As offered
An exploration of the nature and message of the Apocalypse of John - a "crisis document" from the late first Christian century. Emphasis placed on the importance of understanding the variety of interpretive approaches given to this writing.
Grade Type: Letter Grade
Prerequisite(s): CST 130 or 240

CST 450 - Old Testament Theology

Units: 3
When Offered: Spring (odd years)
An examination of the major theological concepts in the Old Testament, including a survey of the disciplines of biblical and Old Testament theology.
Grade Type: Letter Grade
Prerequisite(s): CST 110 or 210-220

CST 451 - Biblical Preaching

Units: 3
When Offered: Spring & OPS
A study of the basic principles for preparing and delivering biblical sermons, with an emphasis on the writing, delivery, and analysis of expository sermons.
Grade Type: Letter Grade
Prerequisite(s): Previous Biblical Studies coursework

CST 460 - Biblical Theology

Units: 3
When Offered: OPS
An introduction to the Bible's theological and canonical formation, major themes, and overall story with a specific emphasis on the relationship between the Testaments.
Grade Type: Letter Grade

CST 480 - Pastoral Ministry and Leadership

Units: 3
When Offered: OPS
A study of the practical duties of the modern pastor, with emphasis given to problems arising in the performance of regular pastoral duties as well as those created by the environment.
Grade Type: Letter Grade

CST 484 - Current Trends in Youth Ministry

Units: 3
When Offered: Spring (even years)
A research-oriented exploration of current youth trends and issues based on students' interests with the objective of synthesizing their experiences.
Grade Type: Letter Grade

CST 490 - Supervised Ministry

Units: 3
When Offered: Fall, Spring, Summer
A course of supervised in-service training in a local church. Active participation in Christian ministry is expected (minimum 9 hours weekly) under supervision of a Field Supervisor.
Grade Type: Pass/Fail
Prerequisite(s): Junior or Senior status, and permission of the Dean

CST 491 - International Missions Practicum

Units: 3
When Offered: Spring, Summer
Allowing Christian Studies credit for participation in International Service Projects, an extended missions experience designed to acquaint students with the implementation of mission principles in an international context. No more than three (3) units may apply to general education.
Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Dean

CMD 495 - Senior Comedy Showcase

Units: 1
When Offered: Spring
Senior students prepare and perform representative comedic material developed by them through their course of study, culminating in a public performance. The public showcase will feature the work of all graduating seniors combined into one evening's performance, under faculty direction.
Grade Type: Letter Grade
Prerequisite(s): Senior status and permission of the Department Chair

CDS 101 - Introduction to Communication Disorders

Units: 3
When Offered: Fall, Spring
This is an introductory course that is designed to meet the requirements of the American Speech-Language-Hearing Association's (ASHA) knowledge standards in the areas of normal processes, communication disorders, and clinical application. Students will demonstrate a basic knowledge of common speech, language, and hearing disorders, including etiologies, characteristics, prevention, assessment, and intervention.
Grade Type: Letter Grade

CDS 230 - Phonetics

Units: 3
When Offered: Fall, Spring
Phonetics is the study of the sounds that make up language. Both phonetic theory and practical phonetic analysis will be studied. Students in this course will learn how to transcribe English (and some non-English) sounds using the International Phonetic Alphabet. They will also learn how the sounds of language are produced and how to use software that generates sonograms - visual representations of the sounds. The analysis of sonograms is a useful clinical as well as prominent research tool.
Grade Type: Letter Grade
Prerequisite(s): CDS 101

CDS 240 - Speech and Hearing Anatomy and Physiology

Units: 3
When Offered: Fall, Spring
This course introduces students to the anatomy and physiology relevant to the production of speech, perception of sound, and swallowing process. Students will learn the structures, muscles and functions of respiration, phonation, articulation, sound perception, and swallowing. This knowledge of normal human anatomy and physiology is the foundation upon which the study of speech, hearing and swallowing disorders is built.
Grade Type: Letter Grade
Prerequisite(s): BIO 153

CDS 250 - Typical and Atypical Language Development

Units: 3
When Offered: Fall, Spring
This course is designed to provide undergraduate students a thorough understanding of language development from birth through adulthood. Students will first learn the cognitive, motor, perceptual, and social bases of language, and how development in these domains influences language development. Students learn the domains of language and how these domains interrelate to form a complete language system. Finally, language development through school-age, adolescence and adulthood will be covered, including literacy development.
Grade Type: Letter Grade

CDS 310 - Introduction to Audiology

Units: 3
When Offered: Fall, Spring
This course introduces students to the profession of audiology and provides an overview of auditory function and the basic principles of audiologic assessment.
Grade Type: Letter Grade

CDS 320 - Aural Rehabilitation

Units: 3
When Offered: Fall, Spring
In this course students will study the effects of hearing loss on perceptual, cognitive, communicative, educational,

occupational, social, and emotional aspects of life for all age ranges. Students will be able to identify common intervention techniques and build proficiency in the application of assessment tools, and developing recommendations for rehabilitation for infants through adults.
Grade Type: Letter Grade
Prerequisite(s): CDS 310

CDS 330 - Speech Hearing Sciences

Units: 3
When Offered: Fall, Spring
This course provides a brief review of the anatomy and acoustics relevant to the production of speech and perception of sound. Students will then learn the scientific principles driving the processes of respiration, phonation, articulation, and sound perception. This course explores many scientific concepts and theories that explain how humans produce and perceive speech. Clinical measures and imaging techniques of respiration, phonation, articulation, hearing, and brain function will be covered. Clinical application of concepts and theories will be covered heavily.
Grade Type: Letter Grade
Prerequisite(s): CDS 230 and 240

CDS 340 - Clinical Methods and Procedures

Units: 3
When Offered: Fall, Spring
This is a comprehensive course that will prepare students for clinical practicum courses and, ultimately, clinical practice. Students will learn the entire clinical practice, including taking and giving referrals, taking case histories, assessing/ treating patients, and writing documentation. Students will also learn coding and billing for private insurance, Medicaid and Medicare. Navigating ethical issues, protecting PHI, maintaining licensure, establishing professional networks, and managing a case load will also be covered.
Grade Type: Letter Grade
Prerequisite(s): CDS 250

CDS 400 - Special Topics in Communication Disorders

Units: 3
When Offered: As offered
This course will teach advanced topics in specialized communication disorders areas such as articulation, fluency, voice and resonance, receptive and expressive language, hearing, swallowing, cognitive aspects, social aspects, and communication modalities. The specific topic will be announced each semester offered.
Repeatable: May be repeated for a maximum of twelve (12) units with change in topic
Grade Type: Letter Grade
Prerequisite(s): CDS 101 and 230

CDS 405 - Fluency Disorders

Units: 3
When Offered: Fall, Spring
The course will cover the nature, theories, etiology, assessment and management of fluency disorders from preschool children through adults. Students will also be introduced to etiologies, assessment and management of neurogenic dysfluency. Students will be introduced to application of various assessment and treatment strategies with clients across the age span and across settings.
Grade Type: Letter Grade
Prerequisite(s): CDS 240

CDS 410 - Language Disorders in Children

Units: 3
When Offered: Fall, Spring
This course is designed to provide undergraduate students an introduction to language disorders in young and school-age children. Students learn receptive and expressive language development and disorders in children, analysis of the components of language and how each component is involved in language disorders. This course covers the basic principles of language assessment and intervention, and the unique presentations and treatments for various sub-groups of children with language impairment.
Grade Type: Letter Grade
Prerequisite(s): CDS 250

CDS 420 - Articulation and Phonological Disorders

Units: 3
When Offered: Fall, Spring
The purpose of this course is to provide speech development of typical and atypical children and theoretical bases of phonology and phonetics describing speech sound disorders. Students will learn the basics of assessment and treatment in articulation and phonological disorders. Students will learn about various aspects of articulation and phonological disorders including anatomy and physiology of articulation, characteristics of different kinds of speech production disorders, phonetic and phonemic assessment and treatment approaches.
Grade Type: Letter Grade
Prerequisite(s): CDS 230

CDS 430 - Neurogenic and Neurological Disorders

Units: 3
When Offered: Fall, Spring
This is an introductory level course designed to acquaint students with the basics of neuroanatomy and neurophysiology and related communication disorders. Students will learn the etiologies, symptoms and treatment methods for the aphasias, RHD, apraxia, dysarthria, TBI and dementias. Effective counseling methods for this population of patients and their families will also be covered.
Grade Type: Letter Grade
Prerequisite(s): CDS 240

CDS 440 - Voice and Craniofacial Disorders

Units: 3
When Offered: Fall, Spring
This course will begin with a brief review of the anatomy and physiology of the head and neck. Students will then learn about underlying conditions that cause structural communication disorders including but not limited to vocal fold pathology and craniofacial disorders. Students will be introduced to assessment and management of the speech, voice and resonance disorders that occur in structural communication disorders.
Grade Type: Letter Grade
Prerequisite(s): CDS 240

CDS 491 - Internship in Communication Disorders

Units: 1-4
When Offered: As offered
Under the advisement of a faculty member and supervision of communication disorders profession, the student will work or otherwise actively participate in a community-based communication disorders setting.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Communications Disorders major, and Junior or Senior status

CDS 495 - Speech Language Pathology Assistant Clinical Practicum

Units: 3
When Offered: Fall, Spring
The course has a three-fold objective: 1) to provide a minimum of 126 hours of supervised undergraduate clinical practicum; 2) to provide students with understanding of the scope of roles and responsibilities, laws and regulations, ethics, and other related issues of employment as a Speech-Language Pathology Assistant; 3) to self-review and assess their attainment of professional experience in the College of Health Science.
Grade Type: Letter Grade
Fee: Additional clinical practicum fee
Prerequisite(s): CDS 340, 410, 420, and permission of the Department Chair

COM 113 - Oral Communication

Units: 3
When Offered: Fall, Spring, & OPS
This course is designed to introduce the process of public communication and to help develop and refine the skills of oral communication.
Grade Type: Letter Grade

COM 200 - Special Topics in Communication Studies

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of communication arts. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

COM 210 - Forensic Workshop

Units: 1-3
When Offered: Fall, Spring
A participation class in forensics. Students compete in intercollegiate events. Majors may take a maximum of eight (8) units as part of the Communications Program. Communications minors may take a maximum of four (4) units. Students should consult their advisor in the Communication Arts Department to determine how many units per semester are allowed since the program is offered on a continuing basis.
Grade Type: Letter Grade

COM 250 - Introduction to Communication Studies

Units: 3
When Offered: OPS
An introduction to the basic concepts of communication and skills necessary to communicate in a variety of contexts. Emphasis on communication traditions, views, and techniques are used in interpersonal, group, public, intercultural, and mass communication situations.
Grade Type: Letter Grade

COM 306 - Small Group Communication

Units: 3
When Offered: Fall & OPS
This course examines the dynamics in communication within small groups. Students will learn effective critical thinking and problem solving skills for use when working in small groups.
Grade Type: Letter Grade

COM 308 - Interpersonal Communications

Units: 3
When Offered: Fall, Spring & OPS
This class examines the dynamics of the two-person communication process. Students will study the development of self-concept, self-disclosure, perception, listening, and feedback as they affect the communication process. Non-verbal communication, attitudes, beliefs, and values will also be explored.

COM 333 - Oral Interpretation and Readers Theatre

Units: 3
When Offered: Fall, Spring, & OPS
Analysis and oral presentation of literature in a way that is vivid, compelling, and dramatic. This class will help the student to perfect skills in dramatic reading, reading of scripture, and finding and preparing literature for oral presentation.
Grade Type: Letter Grade

COM 340 - Rhetoric and Persuasion

Units: 3
When Offered: Spring & OPS
This course is designed to develop advanced analysis of communication artifacts using theories of rhetoric and persuasion. The course discusses and makes use of rhetorical theorists from classical and contemporary traditions through the lens of compliance gaining. A focus will be on understanding human persuasion in everyday life, as well as in scholarly perspective.
Grade Type: Letter Grade

COM 375 - Legal, Ethical, and Social Foundations of Communication

Units: 3
When Offered: OPS
Explores philosophical and theoretical foundations of ethics in communication and public relations. Emphasis is placed on rhetorical, cultural, interpersonal, and organizational contexts of communication studies. Ethical dilemmas in communication studies and public relations are analyzed from a Christian worldview and theoretical perspective.
Grade Type: Letter Grade

COM 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

COM 400 - Special Topics in Communication Studies

Units: 3
When Offered: Fall, Spring
Concentration upon a specific topic in the field of communication arts. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

COM 401 - Argumentation and Debate

Units: 1-3
When Offered: Fall
A study of the principles and models of argumentation and debate, the basic theories, strategies, and processes by

which a student may present an effective argument, as well as their application to business and interpersonal communication as well as ministry. The course provides practical experience in forming arguments, defending a position, using evidence to build a case, refutation, and analysis of arguments. Special emphasis given to the principles of Parliamentary Debate. Only three (3) units may be applied to major.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade

COM 403 - Communication Theory

Units: 3
When Offered: Fall & OPS
This course is designed to introduce theories in the academic field of communication studies. The focus of the course will be on recognizing human communication theories in everyday life, and being able to critically examine situations in multiple cultural contexts based on those theories. Connections will be made between these theories and the prominent theories of related fields.
Grade Type: Letter Grade

COM 405 - Rhetorical Criticism

Units: 3
When Offered: Spring & OPS
This course is designed to develop advanced analysis of communication artifacts using rhetorical theory. The course discusses and makes use of rhetorical theorists from classical and contemporary traditions to better understand cultural artifacts from various contexts. Application to various non-communication related fields will be explored.
Grade Type: Letter Grade

COM 410 - Forensic Workshop

Units: 1-3
When Offered: Fall, Spring
A participation class in forensics. Students compete in intercollegiate events. Majors may take a maximum of eight (8) units as part of the Communications Program. Communications minors may take a maximum of four (4) units. Students should consult their advisor in the Communication Arts Department to determine how many units per semester are allowed since the program is offered on a continuing basis.
Grade Type: Letter Grade
Prerequisite(s): COM 210

COM 420 - Strategic Communication and Global Engagement

Units: 3
When Offered: Fall (even years) & OPS
In this course students will analyze and evaluate the historical, economic, social, cultural, and political forces of globalization in the context of media. A strong focus will be on modern and contemporary world cultures and on current issues in the globalization of media forms and information technologies. Historical contexts and pressures at work within the contested terrain of globalism will be examined. Students will understand the development of global communication and media networks as these have evolved, expanded, and make up globalization. In addition, students will closely examine the role of digital media and global activism.
Grade Type: Letter Grade

COM 425 - Organizational Communication

Units: 3
When Offered: Spring & OPS
Examination of the nature and process of communication in modern organizations, including theories, change

strategies, internal personnel relations, and conflict management, as they relate to organizational cultures.
Grade Type: Letter Grade

COM 430 - Communication Research and Methods

Units: 3
When Offered: Spring (even years) & OPS
Explores basic methodologies of communication research, including experiments, surveys, focus groups, field observations, content analysis, and rhetorical and critical analyses. These methodologies and the theoretical and ethical assumptions underpinning them are examined as ways of posing questions and getting answers about human communication. Each student will write papers based on a research project including problem definition, literature review, data gathering and analysis and reporting.
Grade Type: Letter Grade

COM 435 - Gender and Communication

Units: 3
When Offered: Fall
This class examines gender from both a secular and biblical perspective through an examination of rhetoric, interpersonal communication, and media. Students will learn what gender is, how society and biology impact what gender is, and how gender impacts their own communication and the communication of others.
Grade Type: Letter Grade

COM 440 - Digital Trends in Communication

Units: 3
When Offered: OPS
Exploration of emerging trends in digital media, providing an opportunity for students to understand, deploy, and reflect upon digital communication trends. A theoretical survey of past, current, and predicted future trends and research on the impact of these communication technologies.
Grade Type: Letter Grade

COM 450 - Internship in Communication Studies

Units: 1-3
When Offered: Fall, Spring
Under faculty supervision, the student will be assigned to a position, utilizing principles of communication studies acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of communication studies as a whole.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

COM 451 - Internship in Communication Studies

Units: 1-3
When Offered: Fall, Spring
Under faculty supervision, the student will be assigned to a position, utilizing principles of communication studies acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of communication studies as a whole.
Grade Type: Letter Grade
Prerequisite(s): COM 450 and permission of the Department Chair

COM 499 - Communication Senior Capstone

Units: 3
When Offered: OPS
An in-depth, student-centered experience that requires the integration of theory and practical experience in communication studies. Students will select a sub-discipline of communication studies to create a project that will identify an issue, problem, information gap, or creative endeavor in which the student will explore, research, and evaluate in a final paper.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Program Director

CIS 265 - Information Systems Essentials

Units: 3
When Offered: Fall, Spring, & OPS
This is an introduction to the essential computer software tools used in the modern information society. Students will be introduced to software applications such as word processing, presentations, spreadsheets, databases, and email. Project-based learning activities will provide hands-on experiences for students to practice and apply the skills to real-world situations. Students will integrate these tools in a comprehensive project.
Grade Type: Letter Grade

CIS 268 - Computer Programming Languages

Units: 3
When Offered: Spring
In this course concepts of computer programming languages are presented. Attention is given to the common constructs of programming languages as well as a structured approach to program development. The programming language may change from semester to semester.
Grade Type: Letter Grade

CIS 270 - Business IT Application

Units: 3
When Offered: Fall, Spring, & OPS
This course will develop essential math and computer skills necessary to support the student's integration into the business program. Students will be introduced to the Microsoft Office suite application packages: Word, Excel, PowerPoint, and Outlook. In addition, they will reinforce essential math skills that support upper division requirements and integrate with computer software applications. Students will be expected to demonstrate integration of the math and software skills by the end of the course.
Grade Type: Letter Grade
Prerequisite(s): MAT 115 or STA 144

CIS 369 - Intermediate Computing

Units: 3
When Offered: Fall (odd years)
This is a hands-on computer lab and lecture course covering the current office productivity software Advanced Microsoft Office applications. This course will give students knowledge of the practical business applications of the spreadsheets, word processing, database management and presentation software.
Grade Type: Letter Grade
Prerequisite(s): CIS 265

CIS 465 - Essentials of Geographic Information Systems

Units: 3
When Offered: Fall
The course provides an overview of the theoretical foundation and applied use of Geographic Information Systems

(GIS). At the conclusion of the course, students will have working knowledge of GIS and their appropriate application in various disciplines and organizational settings. The historical development of innovative and collaborative geographic information tools that assist with managing the challenges associated with positional data will also be introduced. Students will demonstrate acquired knowledge via application of the fundamental and principal concepts of geographical information systems by completing a series of lab assignments and a culminating research project.
Grade Type: Letter Grade

CIT 320 - Enterprise Architecture

Units: 3
When Offered: OPS
Alignment of business and technology models is a tactical business objective that supports all business strategies meant to improve the value chain in service-driven organizations. The focus of enterprise architectures is to facilitate this alignment by identifying the main components of an organization or a sub-set of it (such as its information systems), and the ways in which these components work together. The components include staff, business processes, technology, information, as well as financial and other resources. This course gives an introduction to enterprise architecture frameworks (EAFS) that may be used to catalog and document enterprise components to help inform, guide, and constrain choices in business, IS or IT solutions development.
Grade Type: Letter Grade

CIT 330 - Project Management

Units: 3
When Offered: OPS
The students will learn the theoretical and practical aspects of project management. Topics include organizational theory, group behavior, project management skills, case studies, personal and group productivity tools, management of distributed work, stakeholders, consultants, and knowledge management. Students will also learn software development team configuration and maintenance; software project documentation; communication in a software project (reporting and presentations); project management tools; advanced life cycle models; measurement, metrics and control; testing; systems integration; maintenance; systems development automation.
Grade Type: Letter Grade

CIT 340 - System Analysis and Design

Units: 3
When Offered: OPS
This course begins with business functional analysis and ends with object oriented information systems design. Students are introduced to tools and techniques enabling effective analysis, design and documentation of an information system. The student learns formal methodologies that form the basis of object-oriented systems engineering practices. Models that focus on the articulation of business functions, integrating process, data and behavioral abstractions form the core of formal methods in systems development using the unified modeling language (UML).
Grade Type: Letter Grade

CIT 350 - Foundations of Information Systems

Units: 3
When Offered: OPS
This course provides an understanding of information systems and their use in achieving strategic advantage in business practice. This class explores the technology itself, focusing on the primary business application of the technology, what problems it can address, and the organizational importance of these systems for remaining competitive in a global economy. Students will become familiar with the wide range of business processes that must be managed effectively for success. The class demonstrates the many types of information systems supporting business processes and a study of how technology, especially information technology, can be used as an essential component of linking technology policy with corporate strategy and identifying technology options that will ensure the most effective

execution of organizational strategy.
Grade Type: Letter Grade

CIT 360 - Legal and Ethical Practices in Information Technology

Units: 3
When Offered: OPS
This course offers extensive and topical coverage of the legal, ethical, and societal implications of information technology. Students will learn about issues such as file sharing, infringement of intellectual property, security risks, internet crime, identity theft, employee surveillance, privacy, compliance, social networking, and ethics of IT corporations. Students will gain an excellent foundation in ethical decision making for current and future business managers and IT professionals.
Grade Type: Letter Grade

CIT 370 - Database Design and Processing

Units: 3
When Offered: OPS
This course is a comprehensive introduction to data management in organizations. It establishes the data management foundation for the computing major. Topics include conceptual and logical data modeling, entity relationship and relational data modeling, and database design and implementation using the SQL programming language.
Grade Type: Letter Grade

CIT 380 - Computer and Network Security

Units: 3
When Offered: OPS
This course will provide the student with the knowledge of modern computer and network security procedures, the ability to recognize attacks, and best practices process countermeasures. Students will also learn how to process the authentication, identification, data secrecy, data integrity, authorization, access control, computer viruses, and general network security procedures. This course will also cover secure e-commerce and applications of public key methods, digital certificates, and credentials.
Grade Type: Letter Grade

CIT 440 - Web Application Development

Units: 3
When Offered: OPS
The course will introduce concepts in programming web application servers. We will study the fundamental architectural elements of programming web sites that produce content dynamically. The primary technology introduced will be java servlets and java server pages (JSPS), but we will also cover the related topics as necessary so that students may build significant applications. Such topics include: http; html and xml; JavaBeans; design patterns (e.g., abstract factories and model-view-controller); tag libraries (JSTL); relational databases (MYSQL and JDBC); object-relation mapping tools; security (including SSL); Ajax; web services (SOAP, WSDL and UDDI); frameworks; internationalization; scalability and performance issues.
Grade Type: Letter Grade

CIT 450 - E-Commerce Systems Development

Units: 3
When Offered: OPS
This course introduces students to the fundamentals of microsoft.net framework, the asp.net web development environment, and C# programming. It also covers xml web services, SQL server database and Microsoft web server IIS (internet information services). Students study how to develop powerful web sites and web applications that access databases using dynamic, server-side programming in C#. They also learn how to deploy such applications over various

servers.
Grade Type: Letter Grade
Prerequisite(s): CIT 440

CIT 460 - Business Networking

Units: 3
When Offered: OPS
Provides students with the ability to assess the needs of an organization and select, develop, integrate, and administer the appropriate solution. Specifically, students will be proficient in the technical aspects of a network, including installation, maintenance, monitoring, resource management, user management, and performance issues; have working knowledge in common operating systems including installation, configuration, scripting, user and resource management, troubleshooting and the use of common system utilities; and they will be able to evaluate, analyze, design, manage, administer and troubleshoot networks.
Grade Type: Letter Grade

CIT 465 - Advanced Business Networking

Units: 3
When Offered: OPS
In Advanced Business Networking students will acquire the ability to assess the IT needs of an organization and select, develop, integrate, and administer appropriate solutions. Specifically, students will be proficient in the technical aspects of wireless networking, network operating systems, in-depth TCP/IP networking, voice and video over IP, network security, troubleshooting network problems ensuring integrity and availability, and network management.
Grade Type: Letter Grade
Prerequisite(s): CIT 460

CIT 470 - Information Processing Systems

Units: 3
When Offered: OPS
Today's organizations are complex systems spanning a variety of corporate functions aimed at achieving a range of objectives. Its environment is subject to globalization and to the effects of the "era of information". Its management is therefore exposed to a formidable task of analyzing huge amounts of time-critical information and, nonetheless, it is expected to always make the right decisions at the right times. Conveniently, a range of technologies and products cumulatively known as business intelligence (BI) come to the rescue.
Grade Type: Letter Grade

CSC 200 - Special Topics

Units: 1-4
When Offered: As offered
This course offers a concentration upon a specific topic in the field of computer science. The topic varies by semester.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

CSC 311 - Compiler Design and Languages

Units: 3
When Offered: Fall
Introduction to concepts and considerations of modern compilers and programming languages. Language translation, types and declaration, and abstraction mechanisms are studied. Both functional and object-oriented programming paradigms are explored through examination of several programming languages.
Grade Type: Letter Grade
Prerequisite(s): EGR 227

CSC 312 - Algorithms

Units: 3
When Offered: Spring
Algorithms are the heart of any computer software; they define the procedure for accomplishing a data-intensive task. This course establishes terms and methods for talking about algorithms, examines some of the basic algorithms for sorting, searching and other fundamental tasks, and explores more advanced algorithms in bioinformatics and other fields.
Grade Type: Letter Grade
Prerequisite(s): EGR 227

CSC 313 - Graphics and Visual Computing

Units: 3
When Offered: Spring
This course explores issues related to the production and the analysis of imagery and visual representations. Computer graphics are introduced from basic concepts through rendering and animation. Visualization of data is presented. Computer Vision and Image Processing is presented both mathematically and practically with an emphasis on creating image manipulation programs in a high-level language.
Grade Type: Letter Grade
Prerequisite(s): EGR 227

CSC 400 - Special Topics

Units: 1-4
When Offered: As offered
This course offers a concentration upon a specific topic in the field of computer science. The topic varies by semester.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

CSC 411 - Social and Professional Issues in Computing

Units: 2
When Offered: Spring
The Christian worldview provides a framework within which the complicated ethical and social issues of computing can be considered. This course will guide students through an examination of several key ethical questions in computing, using Biblical principles as a guide.
Grade Type: Letter Grade

CSC 412 - Intelligent Systems

Units: 3
When Offered: Spring
Intelligent systems is concerned with the design and analysis of autonomous agents that perceive their environment and make rational decisions. This course introduces the basic definitions and issues in Artificial Intelligence and Machine Learning. Students will create reasoning systems in software and explore their capabilities in dealing with new knowledge. Ethical issues in Intelligent Systems will be presented and examined from a Christian perspective.
Grade Type: Letter Grade
Prerequisite(s): EGR 225, 227, and 305

CSC 413 - Information Security and Computer Forensics

Units: 3
When Offered: Fall
This course provides an introduction to the field of Security in computing. Topics include common security standards

and policies, cryptography and information security, access controls, attacks and countermeasures, and computer forensics.
Grade Type: Letter Grade
Prerequisite(s): EGR 222

CSC 414 - Theory of Computation

Units: 3
When Offered: Fall
Computer scientists use hardware and software components to solve problems; this course encompasses the theoretical basics that underlie them. Automata, languages and grammar, language processing, computability and complexity theory will be examined in detail. Important topics will be explored using a combination of conceptual work and coding exercises.
Grade Type: Letter Grade
Prerequisite(s): CSC 311 and EGR 225

CON 105 - Introduction to Construction Management

Units: 3
When Offered: Fall
This course will explore fundamental concepts related to the theory and practice of construction management. The course includes an overview of the construction industry, job market, common project management tools, basic materials and methods of construction, risk management challenges, sustainable operations, and leadership skills required to direct a construction company and project activities.
Grade Type: Letter Grade

CON 205 - Plan Reading and Estimating

Units: 3
When Offered: Spring
Plan Reading and Estimating introduces students to construction plan reading and interpretation of residential and commercial projects. With a basic understanding in plan reading, students will apply estimating processes and learn cost engineering terminologies. Students will learn how to conduct quantity surveys from residential and commercial plans and understand the principles of unit price cost estimating.
Grade Type: Letter Grade

CON 215 - Computer-Aided Drafting and Design

Units: 3
When Offered: Fall
This course introduces students to construction visualization, graphical geometry and analysis in construction, sketching applications, computer-aided design, and fundamentals of building information modeling.
Grade Type: Letter Grade

CON 310 - Construction Materials and Methods

Units: 3
When Offered: Fall
This course explores information about construction materials and methods. The following concepts are presented in this course: (a) site investigation; (b) construction materials characteristics and costs; (c) construction methods; (d) equipment types and uses; and (e) equipment production rates and cost.
Grade Type: Letter Grade

CON 315 - Building Information Modeling

Units: 3
When Offered: Fall, Spring
This course introduces students to the application of Building Information Modeling (BIM), both as a product and a process. BIM is a new approach to the built environment as a building project delivery platform in which digital representation of a building process is used to facilitate the exchange and interoperability of information. This course introduces students to the various benefits of improved design quality, reduction in design errors, improved field productivity, reduction in conflicts, and their associated changes as it relates to manufacturing cost and time.
Grade Type: Letter Grade
Prerequisite(s): CON 215 or EGR 122

CON 325 - Construction Company Financial Management

Units: 3
When Offered: Spring
This course introduces students to practices in accounting and financial management for the construction industry. Students analyze and apply concepts related to managerial accounting, project controls, financial statement analysis, work in progress, lending, sureties, risk management, and taxes for construction companies and project teams.
Grade Type: Letter Grade
Prerequisite(s): ACC 250

CON 330 - Construction Safety

Units: 3
When Offered: Spring
Introduces students to the various causes of construction accidents and adopted strategies to prevent worksite injuries and illnesses with an emphasis on OSHA standards.
Grade Type: Letter Grade

CON 340 - Building Structures

Units: 3
When Offered: Spring
Building Structures introduces students to the types and nature of structural systems including material basics as it relates to: wood, steel, and concrete.
Grade Type: Letter Grade
Prerequisite(s): EGR 241

CON 350 - Project Delivery, Law and Contracts

Units: 3
When Offered: Spring
This course provides fundamental knowledge for the documentation, administration, and successful delivery of construction projects through the application of industry standard project delivery methodologies. The course will also introduce students to various aspects of construction contracts in respect to project delivery, construction law and ethics.
Grade Type: Letter Grade

CON 415 - Emerging Technologies in Construction

Units: 3
When Offered: Spring
This is a project-based course that provides an opportunity for students to apply state-of-the-art technologies to explore solutions to contemporary technological and managerial challenges in the modern construction industry. Students in this course will utilize their knowledge about computerized simulation and modeling technologies such as Building Information Modeling (BIM), scanning technologies, and virtual reality (VR) or augmented reality (AR) technologies

to address design and management challenges on construction projects.
Grade Type: Letter Grade
Prerequisite(s): CON 315

CON 430 - Advanced Estimating

Units: 3
When Offered: Fall
This course introduces students to advanced concepts in construction estimating/cost engineering, including but not limited to the creation of estimating spreadsheets and application of labor, material and equipment calculations. The use of cost estimating databases, what distinguishes between direct and indirect construction costs, bid proposal preparation and various computer applications.
Grade Type: Letter Grade
Prerequisite(s): CON 205

CON 460 - Construction Planning and Scheduling

Units: 3
When Offered: Spring
Construction Planning and Scheduling introduces students to theory and application of construction scheduling to control the acquisition, movement, storage, utilization of workers, material, and equipment with emphasis given to the Critical Path Method (CPM).
Grade Type: Letter Grade
Pre- or Co- Requisite(s): CON 430

CON 470 - Mechanical Electrical and Piping Construction

Units: 3
When Offered: Fall
This course advances student knowledge of mechanical, electrical, and piping (MEP) systems in construction. Students examine principles of code, design, and materials and methods related to the MEP trades. Students perform applied MEP exercises related to examination of plans and specifications, requests for information, submittals, shop drawings, clash detection, and construction coordination.
Grade Type: Letter Grade

CON 490 - Computer Based Capstone Design

Units: 3
When Offered: Spring
This course explores professional practice as a constructor, requiring an understanding of the working and contractual relationship among all participants in any project process. Students will be required to participate in a "real" construction situation involving all aspects of managing a project; from initial planning to completion, including budgets, estimating, scheduling, financing and creating contracts and other construction forms as necessary. Case studies will be utilized to develop critical thinking skills.
Grade Type: Letter Grade
Prerequisite(s): CON 460
Pre- or Co- Requisite(s): CON 430

CJS 113 - Introduction to Criminal Justice

Units: 3
When Offered: Fall, Spring, & OPS
A survey of the U.S. system of criminal justice. The history and philosophy of criminal justice administration in America, description of its social and political institutions, and overviews of major issues in the discipline are covered.
Grade Type: Letter Grade

CJS 120 - Firearms

Units: 1
When Offered: Fall, Spring
This course offers students an introduction to the basic operation of handguns. The course will include basic shooting skills, firearm ammunition, safety, legal aspects of gun ownership, handgun shooting sports and activities, ballistics, and firearms cleaning and maintenance.
Grade Type: Pass/Fail
Fee: Additional lab fee

CJS 200 - Special Topics

Units: 1-3
When Offered: As offered
An examination of a specific issue in the field of Criminal Justice.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

CJS 301 - Fundamentals of Criminal Law

Units: 3
When Offered: Fall, Spring
Nature of criminal law and its philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using California and federal statutes as illustrations; defenses to criminal responsibility; and criminal responsibility.
Grade Type: Letter Grade

CJS 304 - Ethics for Law Enforcement

Units: 3
When Offered: OPS
A traditional exploration of the field of law enforcement ethics, which broadly encompasses the history of justice and theories of morality and ethics from antiquity to the modern age. It will also cover the ethical problems unique to law enforcement such as "shoot - no shoot" scenarios, the use of force in general, racial profiling and hate crimes, opportunities for corruption in the context of the War on Drugs, and various other law enforcement issues.
Grade Type: Letter Grade

CJS 321 - Courts and Criminal Procedures

Units: 3
When Offered: Fall, Spring
A study of the judiciary in the criminal justice system; structure of the California and federal court systems; prosecution; criminal defense, right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence; appeals and sentencing.
Grade Type: Letter Grade

CJS 331 - Police Systems and Practices

Units: 3
When Offered: Fall, Spring
An opportunity to analyze the police profession; organization and administration of law enforcement systems; the police role in a democracy; police discretion; police subculture and ethics; police stress; police-community interaction; current and future issues.
Grade Type: Letter Grade

CJS 341 - Minorities and the Criminal Justice System

Units: 3
When Offered: Fall, Spring, & OPS
Students will critically examine the charges of direct and indirect institutional racism within the totality of the criminal justice system. Students will also analyze society's response to crime, cultural, economic and political differences.
Grade Type: Letter Grade

CJS 350 - Emergency Management

Units: 3
When Offered: OPS
This course will cover the principles of emergency management as practiced in the state of California, as well as the County, State and Federal Government. Chief components of the course are the establishment of protocols and procedures, planning and preparedness, intergovernmental responsibilities, developing a response, and mitigating disasters and recovery.
Grade Type: Letter Grade

CJS 355 - Information Management

Units: 3
When Offered: OPS
This course examines the use of technology in the management of criminal justice data and systems. The course studies trends in the use of modern technology in the administration of management and personnel data. Lastly, the course examines potential unintended consequences of the use of technology in criminal justice management.
Grade Type: Letter Grade

CJS 360 - Historical Perspectives of Criminal Justice

Units: 3
When Offered: OPS
The course offers an introduction to the historical study of crime and the administration of justice throughout human history, especially in the United States. The course highlights both changes in criminal behavior and the different ways that societies have sought to deter, punish and rehabilitate.
Grade Type: Letter Grade

CJS 400 - Special Topics

Units: 1-3
When Offered: As offered
An examination of a specific issue in the field of Criminal Justice.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

CJS 401 - Crime and Delinquency

Units: 3
When Offered: Fall & OPS
A study of the traditional and theoretical schools of criminology. Theories relating to individual abnormality and theories relating to cultural influences are examined. Theories of the causes of delinquency and data on delinquent behavior including gangs, minor and major criminal actions, and methods of correction are also covered.
Grade Type: Letter Grade

CJS 402 - Hate Crime

Units: 3
When Offered: Fall
This course explores the problem of hate crime, which can be defined as criminal acts motivated by an extreme bias of hate. The course will focus on hate crimes as a specific type of criminal activity and will address various efforts to prevent these crimes and to hold offenders accountable.
Grade Type: Letter Grade

CJS 403 - Mass Media, Culture, and Crime

Units: 3
When Offered: Spring
This course explores and analyzes the treatment of crime, criminals, victims and the criminal justice system in news, entertainment, and social media. The course attempts to explain changes over time by examining the history of these treatments. Lastly, the course analyzes the real effect of these messages on contemporary life, law, and culture.
Grade Type: Letter Grade

CJS 421 - Narcotics

Units: 3
When Offered: Fall
This course will examine the role of narcotics and drugs in the U.S. criminal justice system and the impact of drugs on crime. This course will address issues related to the history of drugs in society; narcotics' legal and regulatory, social and political context; patterns and drugs of abuse; and strategies of enforcement and rehabilitation.
Grade Type: Letter Grade

CJS 441 - Fundamentals of Criminal Investigation and Report Writing

Units: 3
When Offered: Spring
Students will study investigation theory; collection and preservation of evidence; importance of field notes and offense reports; sources of information; interview and interrogation; use of forensic science; and case and trial preparation.
Grade Type: Letter Grade

CJS 472 - Terrorism and Homeland Security

Units: 3
When Offered: OPS
This course will cover the detailed study of terrorism, counter terrorism, terrorist personalities, and terrorist groups, including types, tactics, and trends on a worldwide scale as well as domestically. The course also examines the unique challenges posed by the government's war on terrorism and commitment to homeland security. The issues of prevention, civil liberties, and nation building will be examined.
Grade Type: Letter Grade

CJS 481 - Statistics for Criminal Justice Law Enforcement

Units: 3
When Offered: OPS
An introduction to elementary statistical methods commonly used in criminological and criminal justice research. Students will obtain sufficient statistical knowledge that they can use to read and understand the professional criminological literature that uses statistical methods. It will also prepare students to use elementary statistical methods in their own research in graduate school or in their professional careers, and it will help students build the statistical background necessary for the study of more advanced statistical topics.
Grade Type: Letter Grade
Prerequisite(s): Criminal Justice Administration major

CJS 485 - Methods of Research for Criminal Justice

Units: 3
When Offered: Fall & OPS
The course examines scientific approaches to the study of criminal justice. Students will learn how to research and study crime using the scientific method. Students will be exposed to various research methods and designs, which will be illustrated with criminological examples and exercises. Finally, the students will calculate and interpret measures of central tendency, dispersion, and association.
Grade Type: Letter Grade

CJS 496 - Institutional and Community Corrections

Units: 3
When Offered: Fall, Spring
This course provides a survey of the historical, philosophical, and legal bases of correctional procedures and institutions and an examination of current problems and innovations. It examines the increasing task of managing persons who have been arraigned or have been sentenced to prisons and various correctional facilities in America. The nature of the institutional environment, issues of community-based policing, and the administrative concerns of safety and efficiency are also included.
Grade Type: Letter Grade

CJS 497 - Comparative Criminal Justice

Units: 3
When Offered: Spring & OPS
The functions, institutions, and operations of U.S. and foreign criminal justice systems are compared. Comparisons are made between countries similar to the U.S., such as Canada and Great Britain, as well as those which are quite different, such as Asian or Arabic countries. The underlying concepts of law enforcement, judicial and correctional processes will be studied in current and historic perspectives.
Grade Type: Letter Grade

CJS 499 - Senior Project

Units: 3
When Offered: Spring
A senior capstone course designed to demonstrate the competence of Criminal Justice majors in the discipline and assess their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.
Grade Type: Letter Grade
Prerequisite(s): CJS 485 and Senior status

CYB 220 - Security by Design

Units: 3
When Offered: OPS
This course explores the theoretical and practical aspects of basic security design fundamentals as they relate to the analysis, design, development, and implementation of Information System components. Topics covered include separation of domains, isolation, encapsulation, least privilege, simplicity of design, testing, documentation, minimization of implementation, deployment, maintenance, fail safe defaults, fail secure, modularity, layering, least astonishment, open design, usability, and reverse engineering.
Grade Type: Letter Grade
Prerequisite(s): EGR 121

CYB 390 - Database Security

Units: 3
When Offered: OPS
This course equips students with a comprehensive knowledge and understanding of how database systems are managed along with the issues and solutions associated with protecting the associated data assets. Topics covered include relational databases, NoSQL databases, object based vs. object oriented, database vulnerabilities, indexing, inference, aggregation, polyinstantiation, hashing and encryption, masking, database access controls, information flow, database security models, SQL Injection, inference and aggregation security issues, and common DBMS vulnerabilities.
Grade Type: Letter Grade
Prerequisite(s): CIT 380 and STA 144

CYB 410 - Defensive Security

Units: 3
When Offered: OPS
This course explores the theories, concepts, and methodologies related to the analysis and assessment of the cybersecurity needs and vulnerabilities of the organization. Students are equipped with the knowledge of the various options available to mitigate threats within a system. Topics covered include network mapping, network security techniques and components, cryptography, malicious activity detection, countermeasures, trust relationships, defense in Depth (layering), OS and application patching, vulnerability scanning and windows, social engineering, and analytical tools.
Grade Type: Letter Grade
Prerequisite(s): CIT 380, CYB 220, NAM 320, and STA 144

CYB 420 - Offensive Security

Units: 3
When Offered: OPS
This course equips students with the knowledge and skills necessary to take an offensive position in regards to cybersecurity and the organization. Topics covered include penetration testing, ethical hacking, honeypots, false ports and services, false directories, attacker identification, network entry point notifications, subversion, and tarpitting.
Grade Type: Letter Grade
Prerequisite(s): CIT 380, CYB 220, NAM 320, and STA 144

CYB 430 - Computer Forensics

Units: 3
When Offered: OPS
This course equips students with the knowledge and skills necessary to successfully navigate the cybersecurity incident response lifecycle. Topics covered include response preparation, incident detection, data collection, data analysis, remediation, and legal compliance.
Grade Type: Letter Grade
Prerequisite(s): CIT 380, EGR 121, NAM 320, and STA 144

CYB 440 - Cybersecurity Management

Units: 3
When Offered: OPS
This course explores the theories, concepts, and methodologies related to organizational security. Students will be equipped with the knowledge and skills required for success regarding the following topics: component procurement, identity management, risk management, cybersecurity planning, security program management, and security operations.
Grade Type: Letter Grade
Prerequisite(s): CIT 380

CYB 470 - Network Defense

Units: 3
When Offered: OPS
This course explores the methodologies, tools, and techniques necessary to protect network and communications assets from cyber related threats. Students will be equipped with the knowledge and skills required for success in regards to the following topics: implementing IDS/IPS, implementing firewalls and VPNs, defense in depth, honeypots and honeynets, network monitoring, network traffic analysis, minimizing exposure, network access control, DMZs/proxy servers, network hardening, mission assurance, network policy development and enforcement, network operational procedures, and network attacks.
Grade Type: Letter Grade
Prerequisite(s): CIT 380, 460, and STA 144

CYB 480 - Essential Tenets of Cybersecurity

Units: 3
When Offered: OPS
This course explores the theoretical and practical aspects of the core tenets of cybersecurity in order to prepare students with the knowledge and skills necessary to secure information resources, perform threat assessments, and mitigate risks. Topics include security and risk management, asset security, security engineering, communications and network security, identify and access management, security assessment and testing, security operations, and software development security.
Grade Type: Letter Grade
Prerequisite(s): CYB 390, 410, 420, 440, and 470

CYB 495 - Cybersecurity Capstone

Units: 3
When Offered: OPS
This course provides the opportunity to integrate knowledge and demonstrate skills obtained throughout the program in the form of an enterprise level cybersecurity related project, which involves a risk assessment of an organization's current cybersecurity posture and noting the results in the form of findings, discussion, and recommendations. The course culminates with a final report/paper and presentation.
Grade Type: Letter Grade
Prerequisite(s): CYB 390, 410, 420, 440, and 470

DSC 423 - Enterprise Data Communications

Units: 4
When Offered: Fall
This course explores state-of-the-art computer communication infrastructure from protocols and protocol architecture to organizational management issues. Special focus areas from TCP/IP Internet communication, protocol design, wireless data networking, to networked applications are studied. The emphasis is on business managers and implementers to design, realize and operate advanced networks that provide efficient and reliable services to users. Topics include data science, data communications, application software, networking, and organization management theory.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

DSC 450 - Data Mining

Units: 3
When Offered: Summer
This course examines at the entire knowledge discovery process. The focus on cutting edge, interesting data mining techniques that can be used in a wide variety of settings (business, science, web analytics, etc.). Topics include algorithmic details, implementation issues, advantages and disadvantages, and many examples of data mining. We will also include the newest topics, such as big data methods and deep learning. The course is a practical, hands-on course, covering knowledge discovery entails, the different groups of algorithms and their usefulness and shortcomings. The

course culminates in a real-world project accomplished with open-source tools.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

DES 101 - Design Technology Applications I

Units: 3
When Offered: Fall, Spring
This is an introduction to the essential computer software tools used in the modern production of information society, with a focus on the workflow and productions native to design oriented tasks utilized in design and allied design professions. Students will be introduced to foundational design software applications - including Adobe Photoshop, Illustrator, and InDesign - and will be introduced to other workflow applications such as word processing, presentations, spreadsheets, databases, and email. Project based learning activities will provide hands-on experiences for student to practice and apply skills to real-world situations.
Grade Type: Letter Grade

DES 110 - Creativity: Process and Purpose

Units: 3
When Offered: Fall, Spring
This course provides an introduction to creativity through discussion and project-based learning. The course provides overview and practice of creative processes (e.g. ideation, research, empathy, proto-typing, etc), in-depth discussion of the theological foundations for creativity, and practice for developing creative habits.
Grade Type: Letter Grade

DES 200 - Special Topics in Design

Units: 1-3
When Offered: As offered
This course will focus on various studio and lecture courses, which explore and present selected topics in design.
Repeatable: May be repeated for a maximum of six (6) units with change in topic
Grade Type: Letter Grade

DES 310 - Creativity: Collaboration and Context

Units: 3
When Offered: Fall, Spring
This course builds on a foundational understanding of creativity's process and purpose. The aim of the course is for students to apply these foundations to the act of completing interdisciplinary creative projects in context.
Grade Type: Letter Grade
Prerequisite(s): DES 110

DES 400 - Special Topics in Design

Units: 1-3
When Offered: As offered
This course will focus on various studio and lecture courses, which explore and present selected topics in design.
Repeatable: May be repeated for a maximum of six (6) units with change in topic
Grade Type: Letter Grade

DES 491 - Design Internship

Units: 1-3
When Offered: As offered
The purpose of this course is to expose students to their respective design profession in a professional office setting,

familiarize students with a professional working environment, and prepare students for future employment.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Pass/Fail

DES 498 - Portfolio

Units: 3
When Offered: Fall, Spring
This is an interdisciplinary course where students will focus on their portfolios and final presentation specific to their industry. Standards in presentation and expectations will be examined to set guidelines for the student's efforts in portfolio building. The goal of this course is for the student to finish with a strong, cohesive and compelling portfolio of student work. This course should focus on presentation beyond the capstone projects required for graduation.
Grade Type: Letter Grade

ECH 320 - Cognitive Development in Infancy and Early Childhood

Units: 3
When Offered: Fall & OPS
This course describes how the cognitive processes of thought, perception, attention, and problem-solving develop in infants and young children. Students will have the opportunity to explore the value of active learning in the development of knowledge, the specific ways in which children construct knowledge, and the theoretical models that support cognitive development at home and in school.
Grade Type: Letter Grade

ECH 340 - Perceptual-Motor Development in Infancy and Early Childhood

Units: 3
When Offered: Fall & OPS
This course explores the concept of active learning and its importance to children's construction of knowledge through perception and movement, essentials of every learning experience.
Grade Type: Letter Grade

ECH 350 - Social and Emotional Development in Infancy and Early Childhood

Units: 3
When Offered: Spring & OPS
This course introduces students to the process through which a child develops a sense of self within a socio-cultural system. Students will learn the significance of a supportive interpersonal environment for personality development. They will evaluate theories of emotional and personality development in infants and young children. They will describe the effects of social and emotional development on learning.
Grade Type: Letter Grade

ECH 360 - Early Childhood Curriculum

Units: 3
When Offered: OPS
This course provides an introduction to the theory and practice of curriculum development in early childhood educational settings. Students will examine the principles involved in planning, implementing and evaluating developmentally appropriate curriculum in all developmental domains. Course content will emphasize the teacher's role in providing educational experiences that foster optimal growth and development of the individual child.
Grade Type: Letter Grade

ECH 365 - Assessment of Young Children including Children with Disabilities

Units: 3
When Offered: Spring & OPS
Assessment procedures for use with infants, toddlers, and preschool children with disabilities. Includes information on basic assessment issues and concerns, specialized assessment instruments for particular developmental domains, and recommended procedures for assessing young children with mild to moderate disabilities. Students will become familiar with a wide range of assessment approaches and understand how assessment results can be used in curriculum planning and program evaluation for general and special education.
Grade Type: Letter Grade

ECH 370 - Spiritual Development in Young Children

Units: 3
When Offered: Spring & OPS
This course will explore spiritual development in young children from a biblical perspective including the role of Scripture in spiritual formation. Students will learn how to facilitate effectively the spiritual growth of children through a comprehensive understanding of the process of spiritual formation.
Grade Type: Letter Grade

ECH 375 - Early Intervention: Early Childhood Special Education

Units: 3
When Offered: Fall & OPS
Students will reflect on current trends and research in early intervention, including instructional content and practice for young children with disabilities. Students will apply and synthesize knowledge of early childhood intervention practice and research through analysis of videotapes and case studies as well as field work experiences.
Grade Type: Letter Grade

ECH 385 - Theories and Models for Understanding Behavior in Young Children with Disabilities

Units: 3
When Offered: Spring & OPS
Students will examine theories of learning as they apply in special education, particularly as they apply to behavior management in young children with disabilities. Principles of applied behavior analysis will be used in a case study.
Grade Type: Letter Grade

ECH 395 - Learning Environments for Young Children including Children with Disabilities

Units: 3
When Offered: Fall & OPS
Students will investigate learning environments for young children including home learning, hospital intervention programs, childcare centers, public school environments, and residential programs. They will examine the characteristics of model learning environments and how to plan for non-disabled children as well as children with various types of disabilities.
Grade Type: Letter Grade

ECH 415 - Consultation and Collaboration in Early Childhood Intervention

Units: 3
When Offered: Spring & OPS
Students will examine the role of the early childhood intervention specialist as a member of interdisciplinary teams through readings, observations, interviews with professionals and family members. They will acquire skills in working with interdisciplinary team members.
Grade Type: Letter Grade
Prerequisite(s): Senior status

ECH 425 - Low Incidence Disabilities in Young Children

Units: 3
When Offered: Fall
Through fieldwork and interaction with professionals from the community, students will become familiar with the particular needs of young children with low incidence disabilities and their families.
Grade Type: Letter Grade
Prerequisite(s): Senior status

ECH 435 - Cross Cultural Perspectives of Children including Children with Disabilities

Units: 3
When Offered: Fall & OPS
Students will investigate how issues of culture affect beliefs and relationships among professionals and families with young children including children with disabilities and how multiple perspectives can affect child outcomes. Students will choose an area of interest to investigate using problem-based learning and present the result of their research to class members.
Grade Type: Letter Grade

ECH 440 - STEM Curriculum Integrated with the Arts

Units: 3
When Offered: Spring & OPS
This course will provide an introduction to the theory and practice of curriculum development in Pre-K settings with a specific focus on STEM integrated with the Arts. Students will learn how to design, implement and evaluate developmentally appropriate programming (DAP) as well as the educator's responsibility in providing experiences that cultivate development of the whole child.
Grade Type: Letter Grade
Prerequisite(s): ECH 320, 340, and 350

ECH 455 - Research Seminar in Early Childhood including Early Childhood Intervention

Units: 3
When Offered: Spring & OPS
Students will gain understanding of research in the area of early childhood intervention. Using the topic of inclusion as a focus, students will read and critique research in the areas of special education policy, professionals' beliefs and relationships, family concerns, issues of culture, and child outcomes. In addition, students will write an integrative research review in an area of interest, and they will orally present their review to class members.
Grade Type: Letter Grade
Prerequisite(s): Senior status

ECH 460 - Adult Supervision

Units: 3
When Offered: Fall & OPS
This course is a study of the methods and principles of supervising teachers, assistant teachers, student teachers, parents and volunteers in early childhood and child development classrooms. Emphasis is on the role of administrators and classroom teachers who function as mentors to new personnel while simultaneously addressing the needs of administrative concerns, other staff, children and parents. Practical experience is attained in verbal and written communication. Attention is given to the role of communication as the conduit for establishing good interpersonal relations. This course is designed to be in alignment with the California Child Development Permit training requirements which state a Master Teacher must have a minimum of two (2) units in adult supervision.
Grade Type: Letter Grade
Prerequisite(s): ECH 320, 340, and 350

ECH 461 - Administration of Early Childhood Programs I

Units: 3
When Offered: Fall & OPS
This course involves an introduction to management skills and administrative responsibilities pertaining to the successful operation of care and educational environments for early childhood programs. Emphasis is on the administration of programs for infants, toddlers, preschool, and school-age children. Content areas include: child and program development, adult supervision and management, family and community relationships, human resources development, business and fiscal management, and technological skill development. This course satisfies the Child Development Permit Requirement for Site Supervisor and Program Director Levels.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ECH 460

ECH 462 - Administration of Early Childhood Programs II

Units: 3
When Offered: Spring & OPS
This course examines the dynamics of management behavior and responsibilities, and the communication process within the organization. It includes the essentials of curriculum design, and its implementation and maintenance through systems of professional staff accountability. Quality program standards are reviewed and their link to professional growth planning and development are addressed. Presented as the foundation for effective management is skill building in leadership, teamwork, time management, sensitivity toward diversity, and advocating for the principles of developmentally appropriate practices. This course satisfies the Child Development Permit Requirement for Site Supervisor and Program Director Levels.
Grade Type: Letter Grade
Prerequisite(s): ECH 461

ECH 495 - Practicum in Early Childhood and Intervention

Units: 3
When Offered: Fall, Spring
This course is a practicum that includes observation, participation, and teaching in the early childhood setting from birth through transitional kindergarten. Emphasis is on program planning including assessment for children in early childhood education and early childhood intervention. This course meets the requirements of the California Child Development Permit, Core Areas: Child Growth and Development, Child, Family and Community and Programs and Curriculum.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean and Senior status

ECH 498 - Early Childhood Studies Portfolio

Units: 1
When Offered: Fall, Spring
This capstone course serves to assess student learning in the Early Childhood Studies program. Students will draw on their work in early childhood studies classes to provide evidence of developing skills, knowledge and dispositions for becoming an early childhood educator.
Grade Type: Pass/Fail
Prerequisite(s): Senior status and last semester

EDU 101 - Professional Educator Series I: The Student Experience

Units: 1
When Offered: Fall
This course introduces future educators to the Elementary Education major at CBU, as well as the teaching profession. The class will focus on developing their professional identities, open-mindedness, empathy and compassion, and

legacy/future minded thinking and actions. Additionally, the class will focus on developing a desire for life-long learning, as well as a strengthening their commitments to educating and enriching the lives of children, families, schools, communities and the world.
Grade Type: Letter Grade

EDU 102 - Professional Educator Series II: The Community Context

Units: 1
When Offered: Spring
This course will explore the community context of learning. Specifically, students will learn more about issues of diversity, equity and social justice. This course also includes a service learning component that will address a community-identified concern and need.
Grade Type: Letter Grade
Prerequisite(s): EDU 101

EDU 200 - Special Topics in Education

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of education. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

EDU 300 - American Public School

Units: 3
When Offered: OPS
Exploring the educational paradigm historically and philosophically, students survey curriculum practices, teacher effectiveness, learner needs of the public schools, and classroom management to understand the challenges of teaching today. Emphasis is placed upon cultural diversity and a dynamic society.
Grade Type: Letter Grade

EDU 302 - Growth, Development, and Learning

Units: 3
When Offered: OPS
This course is a study of human growth and development during the first two decades of life. Emphasis is placed on how teachers apply theoretical foundations of the learning process, cultural forces affecting behavior, testing, grouping of students, and inclusion. A certificate of clearance is required prior to engaging in fieldwork. Prerequisite for all other education courses.
Grade Type: Letter Grade
Fieldwork: 15 hours required

EDU 307 - Technology in the Classroom

Units: 2
When Offered: Fall
Students will examine and apply various instructional theories and technologies to enhance student engagement and achievement. Students will demonstrate proficiency in various computer, web, and mobile device applications for the K-12 classroom and evaluate their relative effectiveness in relation to student achievement. A required course for all credential candidates.
Grade Type: Letter Grade

EDU 341 - The Exceptional Child

Units: 3
When Offered: Fall, Spring, & OPS
The nature, determinants, adjustments, and problems of persons who have cognitive gifts and talents, cognitive delays, physical disabilities, learning disabilities, and who have emotional or behavior disorders will be studied in conjunction with appropriate educational interventions in the mainstream classroom and other settings. The course will acquaint students with (a) characteristics and needs of children with disabilities that affect learning, (b) methods of assessing disabilities, (c) components of the Individual Education Program (IEP), (d) instructional strategies and material, (e) positive behavior support, (f) special needs of families of learners with disabilities, (g) agencies and professional supporting learners with disabilities, and (h) legislation, including Public Law 94-142, IDEA (Part B and Part H), the American Disabilities Act (ADA), and the Rehabilitation Act of 1973 ("Section 504"), as well as subsequent amendments relevant to special education.
Grade Type: Letter Grade
Fieldwork: Ten hours of fieldwork is required. A certificate of clearance is required prior to engaging in fieldwork.

EDU 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

EDU 400 - Special Topics in Education

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of education. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

EDU 401 - Oral Language Development, Instruction, and Assessment

Units: 3
When Offered: Fall
Students will learn all aspects of language development, including syntax, morphology, semantics, phonology, and pragmatics from birth to adulthood. Additionally, students will learn about pedagogical instructional methods to enhance students' receptive and expressive vocabularies. Finally, students will learn how children learn to communicate in general, and in English specifically, while emphasizing individual patterns of communication development and dialectical usage.
Grade Type: Letter Grade
Prerequisite(s): Pre-Elementary Education major

EDU 405 - Teaching Math and Science

Units: 3
When Offered: As offered
This course prepares future teachers to meet the California State requirements for the Multiple Subject Credential in math and science and to equip diverse students with knowledge and methodologies necessary for the successful integration and teaching of these subjects. This course consists of the study of current best practice techniques and curriculum development used in teaching mathematics and science in the public schools. Emphasis is placed on effective instructional methods and evaluation procedures. Hours of observation and participation in Math and Science classrooms are required with the purpose of providing students with opportunities to apply methods learned in this course to public school settings.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance and EDU 409

EDU 407 - Reading and Writing in the Content Areas

Units: 3
When Offered: As offered
Focusing on the attainment of skills as a teacher of literacy, this course requires students to demonstrate content reading and writing competencies, such as determining reading readiness, applying readability formulas, evaluating textbooks, and developing strategies for vocabulary, critical thinking, and comprehension. Focus is placed on the preparation of lessons using PAR: pre-reading, assistance during reading and reflection after reading. Students are also introduced to beginning reader strategies.
Grade Type: Letter Grade
Fieldwork: 20 hours of fieldwork required
Prerequisite(s): Credential program acceptance, EDU 409, 411, and 497

EDU 409 - Educational Psychology

Units: 3
When Offered: Fall, Spring, Summer
This course will equip candidates to appraise the relationship between the theories and practices of human development and teaching and learning methods. Specifically, candidates will examine the manner in which world view perspectives of developmental forces impact classroom policies and procedures. The role of assessment in determining student needs and designing appropriate pedagogical strategies will also be emphasized. This course will solidify understanding of the strengths-based approach to making the pedagogical decisions required in the TPA process.
Grade Type: Letter Grade
Fieldwork: 4 hours of fieldwork is required

EDU 410 - Elementary Methods

Units: 3
When Offered: Fall, Spring
This course examines various research-based instructional techniques, planning strategies, methods, and assessment practices for the elementary schools, both public and private. Ten (10) hours of structured observation is required, equally divided between primary and upper elementary grade classrooms.
Grade Type: Letter Grade
Prerequisite(s): EDU 415
Pre- or Co- Requisite(s): EDU 409 and 411

EDU 411 - Theories and Methods of Teaching Diverse Students

Units: 3
When Offered: Fall, Spring, Summer
This course will equip candidates with the theories and practices connected to working with diverse student populations. Candidates will examine the manner in which societal and cultural forces have impacted current perspectives of equity especially as they relate to special needs and English language learning students. The role of assessment in determining student needs and designing appropriate pedagogical strategies will also be emphasized. This course will solidify understanding of the strengths-based approach to making adaptations required in the TPA process.
Grade Type: Letter Grade
Fieldwork: 10 hours of fieldwork is required
Prerequisite(s): Credential program acceptance, EDU 409, 410, and ETC 407

EDU 412 - Teaching Language Arts and Social Studies

Units: 3
When Offered: As offered
This course prepares future teachers to meet the California state requirements for the Multiple Subject Credential and to

equip students with knowledge and skills necessary for the successful teaching of these subjects. It is a study of the scope, the organization, and the instructional procedures used to teach social studies and language arts. Students learn how to design and develop interdisciplinary units of study, how to write and assess instructional objectives, and how to organize and integrate social studies and language arts instruction for diverse learners in the public classroom.
Grade Type: Letter Grade
Fieldwork: 20 hours of fieldwork is required
Prerequisite(s): Credential program acceptance, EDU 409, and 411

EDU 413 - Disability Studies for General Education Teachers

Units: 3
When Offered: Fall
This course will introduce new teachers to the history of disability through the ages, the relevance of current educational policies to inclusion, technology in the inclusive classroom, intersectionality and its influence upon inclusive practices, working with families, and issues of transition from school to the post-school world. Furthermore, students will learn about the ethical framings of disability and strategies for effectively teaching and including students with disabilities in the general education classroom. Grounded in a disability studies framework, this course encourages students to examine their beliefs about disability and the influence of historical and cultural meanings of disability upon their work as teachers. Students will also learn how to create dynamic and inclusive classroom cultures, getting to know students, selecting appropriate instructional, lesson planning and assessment strategies (UDL, MTSS, RTI), co-teaching, IEPs, 504 plans, IDEIA, and promoting an inclusive school culture.
Grade Type: Letter Grade
Prerequisite(s): EDU 415 and Elementary Education major

EDU 415 - Equity and Diversity in American Public Education

Units: 3
When Offered: Spring
Students will explore the demographic shifts in American life and schools throughout the late 20th and early 21st centuries, and examine the impact of these shifts on education. This course will equip candidates with the theories and practices connected to working with diverse student populations. Candidates will examine the manner in which societal and cultural forces have impacted current perspectives of equity, especially as they relate to educating children and young adults from diverse cultures, ethnicities, religions and races, children and young adults with learning disabilities and those who are English language learners and/or emergent bilingual students.
Grade Type: Letter Grade
Prerequisite(s): EDU 102 and Pre-Elementary Education major

EDU 416 - Pedagogical Approaches to Literacy Acquisition

Units: 3
When Offered: Fall
This course will focus on pedagogical approaches to emergent through fluent literacy acquisition. Teacher candidates will learn about word recognition (decoding/phonics, sight words, high frequency words, structural analysis), comprehension (explicit/literal, implicit/inferential, and evaluative), vocabulary, spelling, writing and fluency instruction. This course will also examine various research-based assessment practices for elementary school teachers.
Grade Type: Letter Grade
Practicum: 5 weeks of fieldwork are required
Prerequisite(s): EDU 401, 410, and Elementary Education major

EDU 416L - Pedagogical Approaches to Literacy Acquisition Lab

Units: 1
When Offered: Fall, Spring
This course is a one (1) credit lab course that will prepare our multiple subject and education specialist credential candidates for the Reading Instruction Competence Assessment (RICA), which is a state-required exam.

Grade Type: Letter Grade
Prerequisite(s): EDU 416

EDU 422 - Teaching Social Studies to Diverse Learners

Units: 3
When Offered: Spring
This course is a study of the scope, organization and instructional procedures used to teach social studies. Students will learn how to design and develop interdisciplinary units of study, how to write and assess instructional objectives suitable for a diverse student population, and learn how to organize and integrate language arts instruction in the public school classroom. These units and lessons must follow state adopted curriculum standards and frameworks. Various teaching strategies will be demonstrated and experienced during the class periods including SDAIE strategies for English Language Learners. Therefore, students will have a variety of lesson plan models to use in the classroom. Students will work in collaborative groups to complete portions of class work. Each course objective is designed to meet a portion of the Teacher Preparation Expectations for certification in the state of California.
Grade Type: Letter Grade
Fieldwork: Required and includes 10 hours of fieldwork and participation activities
Prerequisite(s): EDU 410 and Elementary Education major

EDU 425 - Teaching Math to Diverse Learners

Units: 3
When Offered: Spring
Studies the current best practice techniques and curriculum development used in teaching mathematics and science in the public schools. Emphasis is placed on effective instructional methods and evaluation procedures. A minimum of 10 hours of observation and participation in Math elementary classrooms is required with the purpose of providing students with opportunities to apply methods learned in this course to public school settings. This course provides opportunities for candidates to apply and evaluate the theories and methods studies in education coursework through intense fieldwork observation and lesson preparation within the subject areas of mathematics and science. Integrated lesson planning and unit development with appropriate assessment will be a strong component of course content. This course is also designed to provide opportunity to demonstrate the use of critical thinking and informed decision making concerning teaching and learning.
Grade Type: Letter Grade
Prerequisite(s): EDU 410 and Elementary Education major

EDU 435 - Teaching Science to Diverse Learners

Units: 3
When Offered: Fall
Studies the current best practice techniques and curriculum development used in teaching science in the public schools. Emphasis is placed on effective instructional methods and evaluation procedures. A minimum of 10 hours of observation and participation in science classrooms is required with the purpose of providing students with opportunities to apply methods learned in this course to public school settings.
Grade Type: Letter Grade
Prerequisite(s): EDU 410 and Elementary Education major

EDU 440 - Classroom Management and Ethics

Units: 3
When Offered: As offered
This course explores the context and best practices of teacher ethics and classroom management. The course equips students to navigate the implicit and explicit ethical dilemmas inherent in the routine decisions teachers make every school day in a manner consistent with the profession's code of ethics. The course also equips students with a variety of classroom management and ethics strategies and techniques to optimize the learning environment for all students.
Grade Type: Letter Grade
Fieldwork: 10 hours of fieldwork is required

Prerequisite(s): Credential program acceptance
Pre- or Co- Requisite(s): EDU 409

EDU 442 - Language Arts and Content Literacy Instruction for Diverse Learners

Units: 4
When Offered: Fall
This course is a study of the scope, organization and instructional procedures used to teach language arts/content area literacy, English language learners and students who are struggling with their literacy development. Students will learn how to design and develop interdisciplinary units of study, how to write and assess instructional objectives suitable for a diverse student population, and learn how to organize and integrate language arts instruction in the public school classroom. These units and lessons must follow state adopted curriculum standards and frameworks. Various teaching strategies will be demonstrated and experienced during the class periods including SDAIE strategies for English Language Learners. Students will work in collaborative groups to complete portions of class work. This course focuses on preparing elementary school teacher candidates to identify the challenges and support related to academic language within the content areas. In addition, the course prepares teacher candidates to use content-based literacy strategies (e.g. reading, writing, speaking, and listening) to facilitate learning of content area subject matter for the full range of learners in the classroom. This course will also examine various research-based assessment practices for elementary school teachers.
Grade Type: Letter Grade
Prerequisite(s): EDU 416 and Elementary Education major

EDU 450 - Bilingual Issues and Methods

Units: 3
When Offered: As offered
This course provides an in-depth study of the legal, ethical, social, and cultural issues surrounding the field of bilingual education. Students will study and develop methods of delivering academic content in English in order to provide bilingual students with equal access to the curriculum.
Grade Type: Letter Grade

EDU 490 - Subject Area Specialization

Units: 3
When Offered: As offered
Working almost exclusively in small groups or one-on-one with the instructor, students focus only on the strategies and methods designed specifically for their subject area. In addition to the hours of observation required, divided equally between middle school and high school, students in this course will teach three mini lessons, which are directly supervised by a master teacher, visit Open house night, sit in on a parent teacher conference, and tutor students.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance, EDU 407, 409, 411, and 497

EDU 490E - Subject Area Specialization: English

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to English content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with English and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409, 411, 497 and permission of the Program Director

EDU 490H - Subject Area Specialization: History or Social Science

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to History or Social Science content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with History or Social Science and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409, 411, 497 and permission of the Program Director

EDU 490L - Subject Area Specialization: Health

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to Health content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Health and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409, 411, 497 and permission of the Program Director

EDU 490M - Subject Area Specialization: Math

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to Math content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Math and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409, 411, 497 and permission of the Program Director

EDU 490P - Subject Area Specialization: Physical Education

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to Physical Education content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Physical Education and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409. 411, 497 and permission of the Program Director

EDU 490S - Subject Area Specialization: Science

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to Science content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Science and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409, 411, 497 and permission of the Program Director

EDU 490U - Subject Area Specialization: Music

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to Music content area instruction. Students engage with

relevant information from textbooks, experts, and professional journals associated with Music and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409, 411, 497 and permission of the Program Director

EDU 490V - Subject Area Specialization: Visual Art

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to Visual Art content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with Visual Art and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 407, 409, 411, 497, and permission of the Program Director

EDU 490W - Subject Area Specialization: World Languages

Units: 3
When Offered: As offered
Students learn research-based methodologies that are specific to World Languages content area instruction. Students engage with relevant information from textbooks, experts, and professional journals associated with World Languages and secondary instruction. In addition, students participate in fieldwork hours that take them into both middle and high schools.
Grade Type: Letter Grade
Prerequisite(s): EDU 497 and permission of the Program Director

EDU 497 - Secondary Methods

Units: 3
When Offered: As offered
This course examines various research-based instructional techniques, planning strategies, methods, and assessment practices for the secondary schools, both public and private. Twenty (20) hours of structured observation is required, equally divided between the middle school and high school classroom. This course will introduce the California TPA process.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance
Pre- or Co- Requisite(s): EDU 409

EDU 498 - Student Teaching and Seminar

Units: 14
When Offered: As offered
Teaching experience in a school setting under the guidance of a University supervisor with a cooperating teacher in the school. Open to general education or dual credential teacher candidates who have completed the course, testing, and document requirements.
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Program Director
Concurrent Requisite(s): EDU 499

EDU 499 - Student Teaching Portfolio

Units: 1
When Offered: As offered
Teaching candidates complete the TPA portfolio as a comprehensive assessment of the Teacher Performance Expectations. Students are required to take this course concurrently with EDU 498 - Student Teaching and Seminar.

Grade Type: Pass/Fail
Prerequisite(s): Permission of the Program Director
Pre- or Co- Requisite(s): EDU 498

ETC 407 - Technology and Learning

Units: 3
When Offered: Fall, Spring, Summer
Candidates will examine and apply various instructional theories and technologies to enhance student engagement and achievement. Candidates will demonstrate proficiency in various computer, web, and mobile device applications for the K-12 classroom and evaluate their relative effectiveness in relation to student achievement.
Grade Type: Letter Grade

SPE 446 - Applied Behavior Analysis

Units: 3
When Offered: As offered
This course focuses on developing an educational approach to supporting positive academic and social behaviors in the classroom and community using the principles of Applied Behavior Analysis (ABA). Specifically, students will be presented with the concepts of reinforcement, punishment, stimulus control, shaping and, fading as they are applied to increasing or decreasing academic and social behaviors. Students will also be presented with information regarding functional assessment, behavior support plans and laws (federal and state) governing behavioral issues related to individuals with special needs.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance, EDU 341, and 409

SPE 448 - Technology and Moderate to Severe Disabilities

Units: 3
When Offered: As offered
This course discusses the use of technology for education and support of students with moderate to severe disabilities. Particular focus will be placed on students with autism spectrum disorder. Completion of a college level technology course is recommended.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance, EDU 341, and 409

SPE 455 - Consultation, Collaboration, and Effective Interventions

Units: 3
When Offered: As offered
This course will focus on the basic aspects of effective communication between special education professionals and others involved in the education and care of individuals with disabilities, including parents and family members. Special education teachers will acquire methods for effective team-building, knowledge of community resources, and advocacy. They will learn how to promote self-advocacy for persons in special education.
Grade Type: Letter Grade
Fieldwork: 10 hours of fieldwork required
Prerequisite(s): Credential program acceptance, EDU 341, and 409

SPE 458 - Assessment and Interventions

Units: 4
When Offered: As offered
This course will provide candidates with an advanced theoretical foundation related to the distinct characteristics of mild/moderate disabilities. Candidates will use information regarding characteristics of individuals with mild/moderate service needs to develop instructional interventions that honor and support the unique characteristics of these

individuals. The course consists of three components: (a) a clinical component in which CBU candidates will work directly with elementary students on a regular basis; (b) a face-to-face component in which CBU candidates engage in the course content directly with the course the professor unless otherwise specified; (c) an online component in which CBU candidates engage in online learning experiences designed to introduce, reinforce, or expand the candidates knowledge and skills.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance, EDU 341, and 409

SPE 468 - Teaching Students with Moderate to Severe Disabilities: Instructional Strategies

Units: 3
When Offered: As offered
Instructional strategies for students with moderate/severe disabilities. Includes assessment, curriculum adaptations, curriculum delivery, and program evaluation. Topics include functional academics, communication skills, behavioral issues, and accessing the core curriculum.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance, EDU 341, and 409

SPE 469 - Teaching Students with Moderate to Severe Disabilities: Community Integration

Units: 3
When Offered: As offered
Integrating students with moderate or severe disabilities into the community. Includes social networks, social skills, community based instruction, movement, mobility, and specialized health care.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance, EDU 341, and 409

SPE 490 - Diagnostic and Remedial Techniques in Reading

Units: 4
When Offered: As offered
This course will focus on the various causes of reading disabilities, including severe visual and phonological dyslexia; formal and informal methods for diagnosing reading problems; and the application of the results of assessment in IEP design. Instruments such as the Wide Range Achievement Test, Informal Phonics Inventory, Fry's High Frequency Sight Word Test, the Johns Informal Reading Inventory, and the Woodcock Reading Inventory will be covered. Students will also examine various instructional procedures, strategies, and materials for remediating reading disabilities in students in special education and mainstream classrooms. A clinical practicum is included.
Grade Type: Letter Grade
Prerequisite(s): Credential program acceptance, EDU 341, 409, and 416

SPE 498 - Student Teaching in Special Education

Units: 15
When Offered: As offered
Teaching experience in a special education school setting under the guidance of a University supervisor with a cooperating teacher in the school. Open to teacher candidates who have completed the course, testing, and document requirements.
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Program Director

EGR 101 - Engineering from a Christian Worldview

Units: 4
When Offered: Fall
Serves as an introduction to the exciting field and vocation of engineering and the value of engineering training. Guest

lectures from engineers, and introduction to teams through a group project will be included. Exploration of the concept of worldview from a Christian perspective is stressed. Emphasis will include Christian perspectives on purpose, integrity, discernment and service as they relate to the vocation of engineering. An assessment of one's learning style, temperament, and potential strengths and weaknesses as part of self-discovery will be included. The first course required of all students considering engineering as a major.
Grade Type: Letter Grade

EGR 102 - Introduction to Engineering Design

Units: 4
When Offered: Spring
Introduction to fundamental techniques used in engineering design and analysis. Different models of the design process will be examined. A collaborative team oriented design project will be undertaken.
Grade Type: Letter Grade

EGR 103 - Engineering Service I

Units: 1-3
When Offered: Fall, Spring, Summer
Taking engineering out into the community through service. Activities important to the community will be addressed by teams of engineering students. Intended to stimulate ideas of engineering design classes. 30 hours of service required per unit.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Pre- or Co- Requisite(s): EGR 101 or 102

EGR 106 - Introduction to Engineering Design - Energy Systems

Units: 1
When Offered: Spring
A broad overview of fundamentals and applied concepts of energy used in engineering design and analysis. Energy issues related to sources, generation, delivery, conversion, efficiency and the environment will be discussed. Basic design calculation problems dealing with thermodynamics and heat transfer principles will be examined. This course is for the students with approved design experience.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

EGR 121 - Introduction to Computer Programming in C++

Units: 3
When Offered: Fall, Spring, & OPS
Introduction to computer science. Covers problem solving methods and algorithm development, modern programming methodologies, and fundamentals of high-level block structured language using C++.
Grade Type: Letter Grade
Prerequisite(s): EGR 181 or MAT 115

EGR 122 - Visualization Languages I

Units: 3
When Offered: Fall, Spring
Engineering is a discipline which requires the effective communication of visual information as part of persuasion or education. Excel (beginning and advanced techniques), and a CAD program will be covered to assist in that process for a real current engineering problem of interest. For example this might include the utilization of solar power in Riverside County to address energy consumption concerns. This course lays the foundation for future courses which

have elements of data and information presentation.
Grade Type: Letter Grade

EGR 124 - Visualization Languages - Excel

Units: 1
When Offered: Fall, Spring
Beginning through advanced level of Excel will be covered to assist real engineering problems and data analysis. This course lays the foundation for future courses which have elements of data and information presentation. This course is for the students with approved AutoCAD course and experience.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

EGR 181 - Elementary Mathematics for Engineering Applications with Lab

Units: 4
When Offered: Fall
This is a four unit course that prepares the engineering student for EGR 182. There is no prerequisite. This course will include instruction in the following areas: graphs, linear equations, polynomials, factoring, functions, roots and radicals, quadratic equations and inequalities, graphing relations and functions, polynomial and rational functions, inverse, exponential and logarithmic functions, systems of equations and inequalities, matrices and determinants, as well as sequences and series.
Grade Type: Letter Grade

EGR 182 - Introductory Mathematics for Engineering Applications

Units: 4
When Offered: Fall, Spring
This course will provide an overview of the salient math topics most heavily used in the core sophomore-level engineering courses. These include trigonometry, vectors, complex numbers, sinusoids and harmonic signals, systems of equations and matrices, derivatives, integrals, differential equations and Fourier series within the context of an engineering application. These concepts will be reinforced through extensive examples of their use in the core engineering curriculum. Students may only earn credit for either EGR 182 or EGR 182L.
Grade Type: Letter Grade
Prerequisite(s): EGR 181 or MAT 115

EGR 182L - Introductory Mathematics for Engineering Applications Lab

Units: 1
When Offered: Fall, Spring
This lab course will focus on engineering applications of the math topics covered in EGR 182 and MATLAB programming skills. The lab sessions include experiments of mechanical and electric systems involving math topics most heavily used in the core sophomore-level engineering courses, such as algebraic, trigonometry, vectors and complex numbers, sinusoids and harmonic signals, and derivatives. Students may only earn credit for either EGR 182 or EGR 182L.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

EGR 192 - Engineering Seminar I

Units: 1
When Offered: Fall, Spring
Different speakers of importance to the engineering profession will make presentations. Included are area engineering leaders and professionals as well as nationally recognized contributors to the profession of engineering. A two page

'4MAT' response which includes a one page executive summary will be required.
Grade Type: Letter Grade

EGR 221 - Data Structures

Units: 3
When Offered: Spring & OPS
Develops discipline in program design, style, debugging, testing. Examines linked data structures, trees, introduction to graphs, and recursion.
Grade Type: Letter Grade
Prerequisite(s): CIS 268 or EGR 121

EGR 222 - Software Engineering

Units: 3
When Offered: Fall
Overview of the software development process. Includes requirements, design, construction, and testing of software. Software project planning. Analysis, architecture, and design of software systems using UML. Evaluating designs. Implementing designs using appropriate data structures, frameworks, and APIs.
Grade Type: Letter Grade
Prerequisite(s): CIS 268 or EGR 121

EGR 223 - Software Engineering Approach to Human Computer Interaction

Units: 3
When Offered: Spring
Design, implementation and evaluation of user interfaces. Usability engineering. Task analysis, user-centered design, and prototyping. Conceptual models and metaphors for user interfaces.
Grade Type: Letter Grade
Prerequisite(s): EGR 222

EGR 225 - Discrete Structures I

Units: 3
When Offered: Fall
Introduces the foundations of discrete mathematics as they apply to computer science, focusing on providing a solid theoretical foundation for further work. Topics include functions, relations, sets, simple proof techniques, Boolean algebra, propositional logic, digital logic, elementary number theory, and the fundamentals of counting.
Grade Type: Letter Grade

EGR 226 - Operating Systems and Networking

Units: 3
When Offered: Spring
Introduces the fundamentals of operating systems including processes, memory, scheduling, input/output together with the basics of networking protocols.
Grade Type: Letter Grade
Prerequisite(s): EGR 222

EGR 227 - Data Structures and Analysis

Units: 3
When Offered: Spring
Fundamental data structures for implementation and analysis. Techniques for solving problems by programming. Analysis for complexity and performance trade-offs. Topics include object oriented design, debugging, abstract data

types (ADTs), recursion, big-O notation, interfaces, inheritance, and encapsulation, linked lists, stacks, queues, hash tables, heap, trees, searching, sorting.
Grade Type: Letter Grade
Prerequisite(s): EGR 222

EGR 231 - Circuit Theory I

Units: 4
When Offered: Fall
Linear circuit elements, sources, Kirchhoff's laws, mesh and node equations, Thevenin and Norton equivalent circuits, resistive network analysis, sinusoidal steady-state analysis, power, transient analysis of simple circuits.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): EGR 182 or MAT 245

EGR 232 - Circuit Theory II and Design

Units: 4
When Offered: Spring
Analysis of networks and systems by transform and state-variable methods, two-port networks, topology, network functions, application of convolution, network synthesis, filter design. An analog design project requiring a written report, poster and presentation will be required.
Grade Type: Letter Grade
Prerequisite(s): EGR 231

EGR 234 - Digital Logic Design

Units: 4
When Offered: Fall
Boolean algebra, number systems and representations, analysis and design of combinational and sequential logic circuits, minimization, small and medium scale integrated devices, programmable logic and simulation of digital circuits.
Grade Type: Letter Grade
Prerequisite(s): MAT 115 or higher

EGR 241 - Statics

Units: 3
When Offered: Fall, Spring
Study of forces, moments, free-body diagrams, friction, equilibrium, first and second moments of lines, centers of pressure, mass and gravity, and moments of inertia.
Grade Type: Letter Grade
Prerequisite(s): EGR 182 or MAT 245

EGR 242 - Strength of Materials

Units: 3
When Offered: Fall, Spring
Introduction of stress and strain, stress transformations, analysis of stresses, strain, and deflections in axial members, beams, and torsional shafts. Analysis of pressure vessels.
Grade Type: Letter Grade
Prerequisite(s): EGR 241, and either 182 or MAT 245

EGR 251 - Surveying

Units: 4
When Offered: Fall
A study of the science and art of relative spatial measurements for engineering purposes. Special emphasis is placed on the theory of errors, use of modern surveying instruments, and field practice in transit-tape traversing, leveling and route surveying. In addition, engineering graphing techniques and software are introduced.
Grade Type: Letter Grade

EGR 252 - Transportation

Units: 3
When Offered: As offered
Introduction to transportation engineering with an emphasis on highway design. Topics include transportation demand and planning, aerial photography, environmental impact statements, horizontal and vertical alignment, earthwork, volumes, and design of flexible and rigid pavements.
Grade Type: Letter Grade
Prerequisite(s): EGR 251 and MAT 255

EGR 254 - Materials Engineering

Units: 3
When Offered: Spring
Study of the mechanical and physical properties of construction materials. Introduction to concrete mix design. Laboratory experiments include the measurement of strains using mechanical gauges and electrical resistance strain gauges; behavior and failure to ductile and brittle materials subjected to axial or bending forces; introduction to creep, impact and stability of columns. A design project is required, as well as written reports.
Grade Type: Letter Grade

EGR 256 - Principles of Environmental Engineering and Science

Units: 3
When Offered: Spring
Introductory study of environmental engineering principles, including chemistry, microbiology, ecosystems, material and energy balances, nutrient cycles, risk assessment, risk management, sustainability, water treatment, wastewater treatment, air pollution, solid and hazardous waste, noise pollution, and radiation protection.
Grade Type: Letter Grade
Prerequisite(s): CHE 112, 130, or both 115 and 115L

EGR 261 - Fundamentals of Bioengineering I

Units: 3
When Offered: Fall
The two semester "Fundamentals of Bioengineering" course sequence introduces students to the broad filed of Bioengineering and to principles, some basic engineering skills and techniques used in the profession. The course introduces broad topics in cellular and physiological principles and diverse biomedical engineering fields such as bioinstrumentation, bioimaging, biomechanics, biomaterials, and biomolecular engineering.
Grade Type: Letter Grade
Prerequisite(s): EGR 182 or MAT 245

EGR 262 - Fundamentals of Bioengineering II

Units: 3
When Offered: Spring
This course is a continuation of EGR 261 with application emphasis, by covering biomechanical, bioelectrical, physiological and computer modeling aspects of the field. The course covers some of the mechanical, computer modeling and electrical aspects of the field, particularly as related to the human cardiovascular system.

Grade Type: Letter Grade
Prerequisite(s): EGR 261

EGR 263 - Introduction to 3D Computer Aided Design

Units: 2
When Offered: Fall
This course introduces students to three dimensional (3D) computer aided design (CAD) using Solidworks software. Students will learn to create sketches, extrusions, revolutions, and holes. Design considerations for 3D printing and/or rapid prototyping will be included.
Grade Type: Letter Grade

EGR 271 - Basic Principles and Calculations in Chemical Engineering I

Units: 2
When Offered: Fall
An introduction to concepts used in chemical engineering calculations including chemical process variables and conservation principles of mass applied to various chemical systems.
Grade Type: Letter Grade
Prerequisite(s): MAT 245
Pre- or Co- Requisite(s): CHE 115 and 115L

EGR 272 - Basic Principles and Calculations in Chemical Engineering II

Units: 2
When Offered: Spring
A continuation of EGR 271 - Basic Principles and Calculations in Chemical Engineering I including conservation principles of energy applied to various chemical systems and the application of basic thermodynamic principles.
Grade Type: Letter Grade
Prerequisite(s): EGR 271
Pre- or Co- Requisite(s): CHE 125 and 125L

EGR 281 - Introduction to Industrial and Systems Engineering

Units: 3
When Offered: Fall
Gateway to the Bachelor of Science in Industrial and Systems Engineering. A combination of plant tours, laboratory experiences, and lecture are used to introduce the philosophy, subject matter, aims, goals, and techniques of industrial and systems engineering.
Grade Type: Letter Grade

EGR 291 - Special Topics or Research Project

Units: 1-3
When Offered: Fall
This special registration permits the completion of lower division degree requirements for transfer or other students, program requirement changes, or other special circumstances in which students have partial but not full credit toward a specific degree requirement. It also provides the opportunity for recognition of supervised academic experiences that are not included in traditional curriculum. Registration requires approval by the dean and sponsoring faculty member. The determination of degree credits is at the time of registration.
Grade Type: Letter Grade
Prerequisite(s): EGR 101 and permission of the Dean

EGR 296 - Project or Research Experience

Units: 0-3
When Offered: Summer
This course provides the opportunity for recognition of supervised academic experiences that are not included in traditional curriculum. Students are provided with the opportunity to work on projects overseen by the faculty in order to gain experience in engineering.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Department Chair

EGR 301 - Engineering from a Christian Worldview

Units: 4
When Offered: Fall
Fulfills the requirement of EGR 101 for transfers with upper division status. Serves as an introduction to the exciting field and vocation of engineering and the value of engineering training. Guest lectures from engineers, and introduction to teams through a group project will be included. Exploration of the concept of worldview from a Christian perspective is stressed. Emphasis will include Christian perspectives on purpose, integrity, discernment and service as they relate to the vocation of engineering. An assessment of one's learning style, temperament and potential strengths and weaknesses as part of self discovery will be included. The first course required of all students considering engineering as a major.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): EGR 303

EGR 302 - Engineering Design and Documentation

Units: 3
When Offered: Fall, Spring
Team design of industrial or self-designed projects. Requires the design and development of a process or product with oral and written reports. Includes a review and analysis of professional papers.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): EGR 305

EGR 303 - Engineering Service II

Units: 1-3
When Offered: Fall, Spring, Summer
Taking engineering out into the community or a cross cultural setting through service. Intended to stimulate ideas of engineering design classes could be taken in conjunction with the ISP or study abroad option. Fulfills the requirement of EGR 103 for upper division transfers. 30 hours of service required per unit.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Prerequisite(s): Junior status

EGR 304 - Leadership Cohort

Units: 1
When Offered: Spring
Preparation for a lifetime of leadership as an engineer. Small group discussion format, with opportunities for student facilitated discussions. Topics include: leadership in organizations, emotional intelligence, the psychology of small group dynamics and team performance, global perspectives of engineering. Written executive summaries as part of a "4MAT" like response will be required prior to discussion.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

EGR 305 - Engineering Statistics

Units: 2
When Offered: Fall, Spring
An introduction to the primary statistical and probabilistic models used in the collection and interpretation of engineering data. The focus is on summary techniques, regression models, and application of the central limit theorem, confidence intervals, hypothesis tests, and analysis of variance.
Grade Type: Letter Grade
Prerequisite(s): MAT 245

EGR 306 - Internship Preparation

Units: 1
When Offered: Fall
Designed to prepare you for the official internship during your junior summer. Discussion and development of the individual's priorities for their learning contract. Topics include: resume and internship writing, finding an internship, how you will be assessed as an intern, the psychology of the workplace, different types of bosses and working on teams, and the different types of work environment.
Grade Type: Letter Grade

EGR 321 - Computer Organization

Units: 3
When Offered: Fall
Study of organization and structuring of the major hardware and software components of computers. Includes mechanics of information transfer and control within a digital computer system. Introduces machine instruction sets and assembly language programming.
Grade Type: Letter Grade
Prerequisite(s): EGR 234

EGR 322 - Microcontroller System Design

Units: 3
When Offered: Spring
Design of hardware and software for embedded systems using a modern microcontroller. Covers hardware interfacing including memory system design, interrupt interfacing, and use of internal and external peripheral devises. Emphasis is placed on assembly language programming of the microcontroller including device drivers, exception and interrupt handling, and interfacing with higher-level languages. Laboratory exercises require assembly language programming and hardware design.
Grade Type: Letter Grade
Prerequisite(s): EGR 321

EGR 323 - Software Requirements and Analysis

Units: 4
When Offered: Spring
This course covers techniques for discovering and eliciting requirements using languages and models for representing requirements, analysis, and validation techniques, including need, goal, and use case analysis, requirements in the context of system engineering, and requirements documentation standards. With a focus on traceability, human factors, and requirements management, software change requests become manageable. Quality assurance, verification, inspections, and reviews of the requirements proceed using statistical approaches to quality control.
Grade Type: Letter Grade
Prerequisite(s): EGR 222

EGR 324 - Engineering Economics

Units: 3
When Offered: Fall, Spring
Economic concepts of supply, demand, and production; cost-benefit analysis and break-even analysis; return on investment; analysis of options; time value of money; management of money: economic analysis, accounting for risk applied to the engineering process.
Grade Type: Letter Grade

EGR 325 - Database Systems

Units: 3
When Offered: Spring
Overview of current database technologies with an emphasis on relational database technology. Introduction to database design, entity relationship diagraming, structured query language, and stored procedures.
Grade Type: Letter Grade
Prerequisite(s): EGR 222

EGR 326 - Software Design and Architecture

Units: 3
When Offered: Spring
An in-depth look at software design. Study of design patterns, frameworks, and architectures. Survey of current middleware architectures. Component based design. Measurement theory and appropriate use of metrics in design. Designing for qualities such as performance, safety, security, reusability, reliability, etc. Measuring internal qualities and complexity of software. Evaluation and evolution of designs. Basics of software evolution, reengineering, and reverse engineering.
Grade Type: Letter Grade
Prerequisite(s): EGR 327

EGR 327 - Software Construction

Units: 3
When Offered: Fall
Coverage of software construction fundamentals including minimizing complexity, anticipating change, and constructing for verification. Discussion will include best practices like patterns, object orientated programming and agility. Management of the construction process and accounting for practical considerations will also be examined.
Grade Type: Letter Grade
Prerequisite(s): EGR 222 and 227

EGR 328 - Numerical Methods for Computing

Units: 2
When Offered: Spring
The course introduces numerical methods for computing using standard Numerical Libraries. Students will solve matrix equations with decompositions, including LU and QR. The Singular Value Decompositions are covered in depth as the foundation for Natural Language Processing.
Grade Type: Letter Grade
Prerequisite(s): MAT 255

EGR 329 - Computer Architecture

Units: 3
When Offered: Fall
Introduces students to the organization and architecture of computer systems, beginning with the standard von Neumann model and then moving forward to more recent architectural concepts. Introduction to assembly language programming.

Grade Type: Letter Grade
Prerequisite(s): EGR 121 and 225

EGR 331 - Signals and Systems

Units: 3
When Offered: Fall
Characterization of linear systems by impulse response, convolution, transfer function. Study of linear differential equations and linear difference equations as models. Study of continuous and discrete signals including filters and their effects. Uses transform methods including Fourier series and transforms, FFT, Laplace transforms and Z transforms. Includes computer problems. Assumes familiarity with MATLAB computer software.
Grade Type: Letter Grade
Prerequisite(s): EGR 232 and MAT 255

EGR 332 - Communication Systems

Units: 3
When Offered: As offered
Introduction to principles of modern communication systems with an emphasis on digital data transmission. Pulse amplitude and pulse code modulation are covered. Digital techniques of delta modulation and time division multiplexing are presented. The basics of AM, FM, and PM transmitters and receivers are treated along with noise effects, filtering, threshold effects and phase-locked loops. Common carrier, fiber optic, satellite and television systems are outlined. Local and Wide area networks are explored in depth.
Grade Type: Letter Grade
Prerequisite(s): EGR 331

EGR 333 - Electronics I

Units: 3
When Offered: Fall
Study of electronic devices and basic circuit configurations. Topics covered include amplifier basics, diodes, field effect transistors, and bipolar junction transistors. Includes lab problems.
Grade Type: Letter Grade
Prerequisite(s): EGR 232

EGR 334 - Electronics II

Units: 3
When Offered: Spring
Study of integrated-circuit amplifier design techniques, differential amplifiers, frequency response, feedback, and operational amplifiers. Special topics may include CMOS digital logic circuits, output stages and power amplifiers, filters, and oscillators. Includes lab problems.
Grade Type: Letter Grade
Prerequisite(s): EGR 333

EGR 335 - Data Acquisition, Design and Visualization

Units: 3
When Offered: Fall
Design and implementation of computer-assisted date acquisition (DAQ) systems and computer controlled instrumentation. Designs are implemented and visualized as virtual instruments using the LabVIEW Graphical Programming Language.
Grade Type: Letter Grade
Prerequisite(s): EGR 232

EGR 341 - Thermodynamics

Units: 3
When Offered: Fall
Thermodynamic properties, heat and work, first and second laws, processes, ideal and nonideal cycles.
Grade Type: Letter Grade
Prerequisite(s): Both CHE 115 and 115L or 130, and PHY 203, 214, or EGR 272

EGR 342 - Fluid Mechanics

Units: 3
When Offered: Spring
Introductory concepts of fluid motions, fluid statics, control volume forms and basic principles, and applications basic principles of fluid mechanics to problems in viscous and compressible flow.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): MAT 342 or 343

EGR 343 - Dynamics

Units: 3
When Offered: Fall
Kinematics and kinetics of particles and rigid bodies including Newton's Second Law, work energy methods, impulse-momentum, central and oblique impact.
Grade Type: Letter Grade
Prerequisite(s): EGR 241, MAT 255, and PHY 201

EGR 344 - Materials and Manufacturing Processes

Units: 4
When Offered: Fall
Properties of the principal families of materials used in mechanical engineering design with an introduction to the manufacturing processes used to convert these materials into finished products. Application of statistics and probability to material properties and manufacturing. Laboratory experiments in strength of materials, property of materials, and manufacturing processes.
Grade Type: Letter Grade
Prerequisite(s): EGR 242

EGR 346 - Machine Design

Units: 3
When Offered: Fall
The fundamentals of machine elements in mechanical design. Includes the analysis of components under static and fatigue loadings, and the analysis, properties, and selection of machine elements such as shafts, gears, belts, chains, brakes, clutches, bearings, screw drives and fasteners.
Grade Type: Letter Grade
Prerequisite(s): EGR 242

EGR 351 - Structural Analysis I

Units: 3
When Offered: Fall
Application of fundamental analysis concepts to the behavior of civil engineering structures and structural components. Analysis of statically determinate and indeterminate structures using classical methods such as Slope Deflection and Moment Distribution. Introduction to a typical Structural Analysis Computer Programs.

Grade Type: Letter Grade
Prerequisite(s): EGR 242

EGR 352 - Structural Design I

Units: 3
When Offered: Spring
Principles of the design of steel structures. Design includes axial tension and compression members, flexural members, beam-columns, connections and composite design. LRFD methods are used.
Grade Type: Letter Grade
Prerequisite(s): EGR 351

EGR 353 - Soil Mechanics

Units: 3
When Offered: Fall
The study of index, mechanical and hydraulic properties of soils. Soil identification, compaction, shear strength, consolidation, vertical stress distribution, and flow through porous media. Principles of laboratory identification and testing of soils. Site investigation and in situ testing.
Grade Type: Letter Grade
Prerequisite(s): EGR 254

EGR 354 - Soil and Foundation Engineering

Units: 3
When Offered: Spring
A continuation of EGR 353. Lateral earth pressures, retaining wall design, elastic stress distribution, settlement, and bearing capacity of foundation systems. Sizing of shallow and deep foundation systems.
Grade Type: Letter Grade
Prerequisite(s): EGR 353

EGR 355 - Dynamics and Vibration

Units: 3
When Offered: Fall
This course covers the topics of kinetics and kinematics of a particle and rigid body. The topics under kinematics and kinetics include: force and acceleration, work and energy, and impulse and momentum. The course also covers free and forced vibrations for undamped and damped systems. On an application level, students work with a computerized model using Matlab/Simulink.
Grade Type: Letter Grade
Prerequisite(s): EGR 241

EGR 356 - Hydrology

Units: 3
When Offered: Spring
Introduction to surface and ground water hydrology: hydrologic cycle, precipitation, evaporation, infiltration, groundwater flow, well hydraulics, runoff, rainfall-runoff relationships, uniform flow in open channels, streamflow measurements, hydrologic routing, hydrologic modeling, hydrologic probability, and applications.
Grade Type: Letter Grade
Prerequisite(s): MAT 245

EGR 361 - Introduction to Biomechanics

Units: 3
When Offered: Fall
The course introduces biomechanical principles and their application from a quantitative and rehabilitation perspective. Primary topic areas will include kinematics and kinetics of human movement including modern measurement techniques in human movement science. A model-based description of the mechanical behavior of biological tissues and how biomechanical and neural factors interact in human movement will also be introduced. Labs will provide the student with an understanding of fundamental techniques used in biomechanical analyses and rehabilitation engineering design and development.
Grade Type: Letter Grade
Prerequisite(s): BIO 153 and EGR 242

EGR 362 - Engineering Physiology

Units: 2
When Offered: Fall
This course teaches students to model biological systems, become familiar with biocompatibility testing, and understand long-term biological response (tissue formation / fibrosis). Students will learn how cells respond to the extra cellular environment using engineering modeling techniques. The course will cover both cellular functions and biological systems modeling.
Grade Type: Letter Grade
Prerequisite(s): BIO 153, and either EGR 231 or 262

EGR 363 - Biofluid Mechanics and Relevant Technologies

Units: 3
When Offered: Fall
Introduces the basic principles of fluid mechanics and applies them to key functions of the human body. Students will learn topics such as Poiseuille flow, Bernouilli's equation, and Ohm's Law analogy and how they relate to cardiovascular physiology, prosthetic heart valves, and aqueous humor dynamics relevant to Glaucoma. Medical Devices and sensors relating to fluid flow will be covered as well as basic Heat Transfer and Thermodynamics. Course includes a weekly laboratory session that includes both hands-on experimental measurements and computer-based numerical modeling of fluid flow using MATLAB.
Grade Type: Letter Grade
Prerequisite(s): EGR 382, and either 262 or PHY 203

EGR 364 - Bioimaging

Units: 3
When Offered: Spring
Medical imaging techniques have become important tools for monitoring of diseases and understanding of the molecular aspects of living organisms. This course provides a broad-based overview of major imaging techniques used in biomedical patient care and research. Imaging techniques covered include x-ray, computed tomography (CT), ultrasound, nuclear medicine (PET), and magnetic resonance imaging (MRI). The underlying physics, image formation theories and selected applications are lectured.
Grade Type: Letter Grade
Prerequisite(s): EGR 382

EGR 365 - Biomedical Engineering Research and Instrumentation

Units: 3
When Offered: Spring
This course focuses on laboratory research projects and topics of current interest that are not normally covered in other established courses. Students are expected to be actively engaged in the research and design activity by performing experiments, simulations, or related lab tasks and also by conducting literature review for a project. Through participation in experimental/engineering designs, students will learn how to collect and generate data for papers, posters, and presentations to be used in a professional seminar or journal articles. Content varies from year to year, and

are determined by both instructor and student interest.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair
Concurrent Requisite(s): EGR 305

EGR 371 - Heat and Mass Transport

Units: 3
When Offered: Fall
Study of fundamental heat and mass transfer principles including conduction, forced and free convection (including the application of boundary layer concepts), radiation, and diffusion. It will include the analysis and computation of heat transfer, mass transfer, temperature, and concentration profiles in systems with simple geometries. Estimation and use of local and overall heat and mass transfer coefficients will be covered.
Grade Type: Letter Grade
Prerequisite(s): EGR 272, 342, and MAT 342

EGR 372 - Chemical Engineering Thermodynamics

Units: 3
When Offered: Spring
The fundamentals and applications of thermodynamic properties and processes with a focus on multi-component systems including phase equilibria, nonideal solution behavior, and chemical reaction equilibria. Turbines, compressors, power plants, refrigeration cycles.
Grade Type: Letter Grade
Prerequisite(s): EGR 272, MAT 342, and CHE 415
Pre- or Co- Requisite(s): PHY 203

EGR 373 - Materials Engineering and Selection

Units: 2
When Offered: Spring
An introduction to the properties and processing of metals, polymers, and other materials. The influences of crystal structure, bonding, and electronic structure on physical and mechanical properties are examined. Causes and control of various types of corrosion are explored.
Grade Type: Letter Grade
Prerequisite(s): CHE 125 and 125L

EGR 374 - Separations

Units: 3
When Offered: Spring
Study of separation processes including continuous contact, staged, and batch processes. Separations by phase addition/ creation, barrier, interaction with solids, and external field or gradient will be examined.
Grade Type: Letter Grade
Prerequisite(s): EGR 371
Pre- or Co- Requisite(s): EGR 372

EGR 381 - Operations Research I: Deterministic Methods

Units: 3
When Offered: Fall
Introduction to linear programming; transportation and assignment problems; dynamic programming; integer programming; nonlinear programming.
Grade Type: Letter Grade
Prerequisite(s): MAT 115 or higher

EGR 382 - Applied Differential Equations and Linear Algebra

Units: 3
When Offered: Fall, Spring
An introduction to ordinary differential equations is complemented with the tandem presentation of elementary linear algebra, inclusive of vector spaces, matrices, systems of linear equations, and eigenvectors and eigenvalues. Theory and solution methods for differential equations, including numerical approximations, are presented along with engineering-related applications. MATLAB is used for computer-based methods.
Grade Type: Letter Grade
Prerequisite(s): EGR 121 and MAT 255

EGR 383 - Quality Control

Units: 3
When Offered: Fall
Quantitative aspects of statistical quality control (process control, acceptance sampling by attribute and by variable, rectifying inspection), quality assurance and the management of QC/QA functions.
Grade Type: Letter Grade
Prerequisite(s): EGR 305

EGR 384 - Human Factors and Ergonomics

Units: 3
When Offered: Spring
Physiological systems and psychological characteristics; ergonomics; anthropometry; effects of the physical environment on humans; occupational safety and health; work methods.
Grade Type: Letter Grade

EGR 386 - Operations Research II: Probabilistic Methods

Units: 3
When Offered: Spring
An introduction to ordinary differential equations is complemented with the tandem presentation of elementary linear Stochastic processes; Markov chains; queuing theory and queuing decision models; probabilistic inventory models.
Grade Type: Letter Grade
Prerequisite(s): EGR 305

EGR 390 - Internship

Units: 1
When Offered: As offered
A required internship with industry, research, non profit or other experience with a minimum of 200 hours of supervised work. A learning contract signed by the student and supervisor is required at the beginning and an executive summary written by the student and signed by the supervisor is required at completion.
Grade Type: Letter Grade
Prerequisite(s): EGR 306

EGR 392 - Engineering Seminar II

Units: 1
When Offered: Spring
Different speakers of importance to the engineering profession will make presentations. Included are area engineering leaders and professionals as well as nationally recognized contributors to the profession of engineering. Short reflection papers are required and will be included in your electronic portfolio. May serve as EGR 192 credit for upper division transfer students.

Repeatable: May be repeated for credit
Grade Type: Letter Grade

EGR 400 - Special Topics in Engineering

Units: 1-3
When Offered: As offered
This course offers a concentration upon a specific topic in the field of engineering. The topic varies by semester.
Repeatable: May be repeated for a maximum of eighteen (18) units with change in topic
Grade Type: Letter Grade

EGR 401 - Capstone Design

Units: 3
When Offered: Fall
The first of a two course senior capstone design sequence. Various design topics may be discussed including equipment design, the design of process systems, and economics. Student teams select a project which may involve company sponsorship, and proceed through the design methodology introduced in earlier design classes, incorporating appropriate engineering standards and multiple realistic constraints. Every project has a 'customer' which requires the generation of a customer spec. During the sequence students provide detailed schedules for building a prototype system or designing a process and present weekly progress reports. They also produce technical specifications, undergo a preliminary design review (PDR), and build a working prototype system if appropriate.
Grade Type: Letter Grade
Prerequisite(s): EGR 302 or 352

EGR 402 - Capstone Design and Presentation

Units: 3
When Offered: Spring
A continuation of EGR 401 - Capstone Design. Further development of the project will take place and will involve testing as appropriate. Teams will develop proper documentation for their projects and will appropriately communicate and present the results of their project. A final presentation is given to the public which could include members of the engineering advisory council. The presentation will be recorded and included as a part of students' senior portfolios.
Grade Type: Letter Grade
Prerequisite(s): EGR 401

EGR 403 - FE Exam

Units: 1
When Offered: Fall
A review course for the Fundamentals of Engineering Exam or an equivalent exam for the programs within the College of Engineering. Review topics may be tailored to fit the needs of the various programs. Exam policies and test-taking strategies may be covered.
Grade Type: Letter Grade
Prerequisite(s): Senior status

EGR 405 - Internship Report and Presentation

Units: 1
When Offered: Fall, Spring
An executive summary of your summer intern experience, signed by your supervisor will be submitted the first day of class. A PowerPoint presentation to the entire class and evaluated by your professors and peers will be made. A video of your presentation will be made and feedback will be provided.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

EGR 423 - Mobile Applications Development

Units: 3
When Offered: Fall
Investigation of mobile operating systems and associated software development environments. Consideration of unique constraints and techniques for creating software designed for mobile devices. Design and development of a mobile application.
Grade Type: Letter Grade
Prerequisite(s): EGR 325 and 327

EGR 424 - Web Application Development

Units: 3
When Offered: Spring
The design and development of data driven web applications. The integration and exploitation of HTML, JavaScript, server-side programming languages and database technology.
Grade Type: Letter Grade
Prerequisite(s): EGR 325

EGR 425 - Real Time and Embedded Development

Units: 3
When Offered: Spring
Focus on Programming real-time applications on an embedded platform running a real-time operating system (RTOS). Consideration will be given to cross-compiled software development, embedded system debugging, multitasking, real-time scheduling, inter-task communication, software design for deterministic execution time, software performance analysis and optimization, device drivers.
Grade Type: Letter Grade
Prerequisite(s): EGR 222 and 329

EGR 427 - Software Project Management

Units: 3
When Offered: Fall
Project planning, cost estimation and scheduling. Project management tools. Analysis of options and risks. Release and configuration management. Software process standards and process implementation. Approaches to maintenance and long-term software development.
Grade Type: Letter Grade
Prerequisite(s): EGR 222

EGR 431 - Control Systems

Units: 3
When Offered: Spring
Analog control system modeling, analysis, and design using root locus and frequency response methods. Introduction to state variable methods and digital control. Includes lab projects on real-time control systems. MATLAB and SIMULINK are used extensively as design tools.
Grade Type: Letter Grade
Prerequisite(s): EGR 331

EGR 432 - Applied Electromagnetics

Units: 3
When Offered: Spring
Vector description of the electric and magnetic properties of free space (using the laws of Coulomb, Ampere, and

Faraday). Maxwell's electromagnetic field equations. Wave propagation in unbounded regions, reflection and refraction of waves, and transmission lines and antennas.
Grade Type: Letter Grade
Prerequisite(s): EGR 232, MAT 343, and PHY 203

EGR 433 - Power Electronics

Units: 3
When Offered: Fall
Introduction to the power electronic systems, power controls, switching circuits; power converter topologies and magnetic components including AC/DC, DC/DC, DC/AC converters and their applications.
Grade Type: Letter Grade
Prerequisite(s): EGR 334 and 431

EGR 434 - Robot Modeling and Control

Units: 3
When Offered: As offered
Introduction to fundamentals of robotics. Topics include coordinate frames and transformations, forward and inverse positional kinematics, velocities and Jacobians of linkages, dynamics, sensors and actuators, path planning, robot control methodologies. Special topics such as teleoperation, haptics or computer vision will be introduced. Includes lab problems.
Grade Type: Letter Grade
Prerequisite(s): EGR 431

EGR 435 - Advanced Digital System Design Using FPGAs

Units: 3
When Offered: Fall
Field-Programmable Gate Arrays (FPGAs) have become a popular method of implementing digital electronic designs. Introduction to FPGA integrated circuit structure, concepts, programming, and user designs by way of lecture and laboratory. Thorough treatment of the Verilog Hardware Description Language (HDL) and Xilinx design software plus development boards, in a learn-by-doing approach, via simulation and actual implementation plus testing. Students are taught design building blocks in ever increasing complexity, first combinational blocks then sequential. For example: multiplexors, decoders, counters, state-machines, UARTS and finally an imbedded microcontroller.
Grade Type: Letter Grade
Prerequisite(s): EGR 322

EGR 437 - Digital Signals and Systems

Units: 3
When Offered: Fall
This course focuses on the representation and analysis of discrete-time signals and systems, and also provides an introduction on digital signal processing. Topics covered include convolution sum, difference equations, discrete-time Fourier Series and Fourier Transform, z-Transform, sampling and reconstruction, DFT, FFT, digital FIR and IIR filters.
Grade Type: Letter Grade
Prerequisite(s): EGR 331

EGR 441 - Heat Transfer

Units: 3
When Offered: Spring
Steady and unsteady heat conduction including numerical solutions, forced and natural convection in external and internal flows, thermal radiation properties and exchange between surfaces, introduction to heat exchangers, and boiling and condensation are covered.

Grade Type: Letter Grade
Prerequisite(s): EGR 341
Pre- or Co- Requisite(s): EGR 342

EGR 442 - Computer-Aided Engineering Design and Visualization

Units: 3
When Offered: Spring
Design, analysis and visualization of engineering components and systems using interactive computer programs with emphasis on computer simulation.
Grade Type: Letter Grade
Prerequisite(s): EGR 242

EGR 443 - Mechanical Vibrations

Units: 3
When Offered: Spring
The theory and analysis of vibrating systems including single and multi-degrees of freedom, free and forced, vibrations, with and without damping.
Grade Type: Letter Grade
Prerequisite(s): EGR 343 and 382

EGR 444 - Mechanical Engineering Laboratory

Units: 3
When Offered: Spring
Measurement of fluid flow, heat transfer, power and other properties of mechanical equipment. Design of experiments, use of data acquisition systems, date reporting and presentation.
Grade Type: Letter Grade
Prerequisite(s): EGR 305 and 441
Pre- or Co- Requisite(s): EGR 443

EGR 445 - Thermal Design of Heat Exchangers

Units: 3
When Offered: As offered
This course covers the topics of classification of heat exchangers, design methods, single-phase convection correlations and two phase-correlations, pressure drop calculations, and fouling of heat exchangers. Study of various types of heat exchangers are also discussed, such as double pipe heat exchangers, shell-and-tube heat exchanger, compact heat exchangers, plate heat exchangers, condensers, and evaporators.
Grade Type: Letter Grade
Prerequisite(s): EGR 371 or 441

EGR 446 - Aerodynamics

Units: 3
When Offered: Spring
This course will introduce students the topic of gas dynamics and concepts of lift, drag, and pitching moment. The course will also cover the topics of potential flow, mechanics of laminar and turbulent flow, boundary-layer theory, and applications to wings and turbo-machinery. Numerical analysis will also be utilized in design analysis and problem solving.
Grade Type: Letter Grade

EGR 447 - Mechanics of Composite Structures

Units: 3
When Offered: Fall
This course will introduce students to the fiber-reinforced composite materials and structures with emphasis on numerical analysis. Topics covered in this course will include composite micromechanics and failure criteria, design considerations for structures made of composite materials, and the overview of fabrication process and experimental characterization.
Grade Type: Letter Grade
Prerequisite(s): EGR 242

EGR 448 - Propulsion

Units: 3
When Offered: As offered
This course will introduce students to the topic of propulsion, stationary power production with gas turbine engines, and reciprocating engines. Air-breathing propulsion is emphasized, with a brief treatment of rocket propulsion. It also includes the application of thermodynamic and fluid-mechanical principles to analysis of performance and design with numerical methods.
Grade Type: Letter Grade

EGR 451 - Project and Construction Management

Units: 3
When Offered: Fall
An introduction to professional construction management practice including contracts, addendums, bonds, design-build, bids, specifications, scheduling, and other legal issues.
Grade Type: Letter Grade
Prerequisite(s): Junior or Senior status

EGR 452 - Structural Dynamics and Earthquake Engineering

Units: 3
When Offered: Spring
The course will focus on the analysis of the dynamic response of structural systems. Students will be introduced to the basic concepts of seismology and structural dynamics including the evaluation of structural response to earthquake motions. We will also discuss the seismic design procedure in building codes used in the United States. This will enable students to have a better understanding of dynamic behavior of structural systems under earthquakes. Students will also use their knowledge of seismic design to prepare the Professional Engineer's (PE) examination, which is a mandatory section in California.
Grade Type: Letter Grade
Prerequisite(s): EGR 351 and 343

EGR 453 - Environmental Engineering I

Units: 3
When Offered: Fall
Introductory study of water treatment and supply, wastewater collection and treatment common to rural and metropolitan areas. Laboratory principles and methods related to safety, sampling, data analysis, and measurement of selected physical, chemical, and biological characteristics of water and wastewater are introduced. Field trips are required.
Grade Type: Letter Grade
Prerequisite(s): Senior status

EGR 454 - Environmental Engineering II

Units: 3
When Offered: As offered
Introductory study of solid and hazardous waste management and air pollution control. Study of solid and hazardous waste properties, sources, composition, magnitude, and regulations. Engineered solid waste management functional elements will be introduced. Landfilling methods including siting and modern landfill designs will be studied. Introduction to air pollution sources, quality, meteorology, atmospheric dispersion modeling, and control methods. Field trips are required.
Grade Type: Letter Grade
Prerequisite(s): EGR 453

EGR 455 - Structural Design II

Units: 3
When Offered: Fall
Principles of the design of reinforced concrete structures. Design includes flexural members, compression members, one-way slabs and footings. ACI Strength Design Method.
Grade Type: Letter Grade
Prerequisite(s): EGR 352

EGR 456 - Sustainable Civil Engineering

Units: 3
When Offered: As offered
This course will focus on applying the principles and practices necessary such that planning, design, and construction of a project can be sustainable technically, economically, and environmentally. Students will carefully examine scientific, economic, energy, political, ethical, and regulatory principles by evaluating two actual case studies-one in a developed country; one in a developing country.
Grade Type: Letter Grade
Prerequisite(s): EGR 256

EGR 457 - Transportation Engineering

Units: 3
When Offered: Fall
Introduction to transportation engineering with an emphasis on highway design. Topics include transportation demand and planning, aerial photography, environmental impact statements, horizontal and vertical alignment, earthwork, volumes, and design of flexible and rigid pavements, and batteries.
Grade Type: Letter Grade
Prerequisite(s): Junior or Senior status

EGR 458 - Water Resources Engineering

Units: 3
When Offered: Spring
A continuation and extension of Fluid Mechanics with civil engineering applications of hydraulic and hydrologic engineering. Applications of the concepts from Fluid Mechanics (hydrostatics, conservations laws), analyses of pipe flows, pipe networks, hydraulic machinery, hydroelectric power, pressure conduits, reservoirs and dams, and open channel flow are covered.
Grade Type: Letter Grade
Prerequisite(s): EGR 342 and 356

EGR 459 - Advanced Transportation Engineering

Units: 3
When Offered: As offered

Advanced transportation engineering with an emphasis on the design, construction, maintenance and rehabilitation of highway pavements, airport pavements, railroads, traffic engineering, sustainable transportation systems. The course will cover topics like transportation material characterization, pavement structural design, pavement damage (distress) prediction, airport pavement design specifications, railroad sub-structure design, traffic forecasting, and building sustainable transportation infrastructure.
Grade Type: Letter Grade
Prerequisite(s): EGR 251

EGR 461 - Rehabilitation Engineering

Units: 3
When Offered: As offered
The course provides a basic understanding of assistive technology research and application in: wheelchair technology, augmentative communication, computer access, home and work site modifications, environmental access, and prosthetics. Course also includes a focus on novel prosthetic materials.
Grade Type: Letter Grade
Prerequisite(s): EGR 242

EGR 462 - Biomaterials I: Fundamentals of Concepts

Units: 3
When Offered: Spring
The course provides students with a fundamental understanding of the material selection process required in engineering for medical applications. Materials to be covered include both short-exposure, such as surgical tools and catheters, and long-exposure, such as implants and shunts. Topics to be included are: the manufacturing process, performance characteristics, biocompatibility testing, and long-term biological response such as tissue formation and fibrosis. Relevant design considerations will be discussed, including common medical device standards relating to biomaterials testing and performance.
Grade Type: Letter Grade
Prerequisite(s): EGR 382, CHE 115, and 115L

EGR 463 - Biomaterials II: Polymers for Biomedical Applications

Units: 3
When Offered: Fall
The course provides students with a fundamental understanding of the soft material science and technology required in engineering for medical applications such as cardiovascular, bones and joint, intraocular lenses, artificial kidney, surgical sutures, tissue ingrowth polymers, and controlled release of drugs. Topics to be included are: polymeric materials for advanced technology, thermoplastics, elastomers, thermosets, nanocomposites, and biopolymers. This course also includes the emerging areas of technological growth such as separation, nanomedicine, and biotechnology. Recent examples from the literature will be used to illustrate technologically relevant materials in current nano-biotechnology.
Grade Type: Letter Grade
Prerequisite(s): CHE 115, 115L, EGR 242, and 382

EGR 464 - Neural Engineering

Units: 3
When Offered: Spring
This course provides students with basic principles, theories, and methods that underlie technology for recording and stimulation of central and peripheral nervous system structures. The course also presents recent advances in the development of technology, its practical applications in neuroscience and in medicine.
Grade Type: Letter Grade
Prerequisite(s): BIO 153 and EGR 262

EGR 473 - Chemical Reaction Engineering

Units: 3
When Offered: Fall
The course covers reaction kinetics, differential and integral data analysis, batch, mixed, and plug flow reactors, systems with multiple reactions, reactor cascades, temperature and energy effects, and catalysis.
Grade Type: Letter Grade
Prerequisite(s): EGR 371 and 372

EGR 474 - Chemical Process Control

Units: 3
When Offered: Spring
Control theory and practice, instrumentation, system responses, transfer functions, feed-back control, and stability as applied to chemical engineering processes.
Grade Type: Letter Grade
Prerequisite(s): EGR 272 and MAT 342

EGR 475 - Process Safety

Units: 2
When Offered: Fall
Fundamentals of chemical process safety including toxicology, industrial hygiene, toxic release and dispersion models, fires and explosions, and designs to prevent fires and explosions.
Grade Type: Letter Grade
Prerequisite(s): EGR 342

EGR 477 - Chemical Engineering Laboratory

Units: 3
When Offered: Fall
The application of fundamentals to the experimental study of various chemical processes and unit operations. Experimental design, data collection and analysis, error analysis, instrumentation, and oral and written communication will be emphasized.
Grade Type: Letter Grade
Prerequisite(s): EGR 302 and 374

EGR 481 - Systems Simulation

Units: 3
When Offered: Fall
Model design to simulate discrete event systems with basic input and output analysis using high order languages, applied to industrial systems analysis and design problems.
Grade Type: Letter Grade
Prerequisite(s): EGR 305

EGR 482 - Supply Chain and Logistics Management

Units: 3
When Offered: Spring
Apply industrial and systems engineering and management approaches to improve the effectiveness and efficiency of material flow, information flow and cash flow for the entire supply chains.
Grade Type: Letter Grade
Prerequisite(s): EGR 305 and 381

EGR 483 - Production Systems

Units: 3
When Offered: Fall
Production planning, forecasting, scheduling, and inventory; computer integrated decision systems in analysis and control of production systems, facilities layout and design.
Grade Type: Letter Grade
Prerequisite(s): EGR 305 and 381

EGR 490 - Independent Study

Units: 1-3
When Offered: As offered
Registration Approval: Independent Study Agreement. Student does an independent study under direction of a faculty member. Study of problems in a topic for which related courses have been completed.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

EGR 491 - Research Project

Units: 1-3
When Offered: Fall
This special registration permits the completion of upper division degree requirements for transfer or other students, program requirement changes, or other special circumstances in which students have partial but not full credit toward a specific degree requirement. It also provides the opportunity for recognition of supervised academic experiences that are not included in traditional curriculum. Registration requires approval by the dean and sponsoring faculty member. The determination of degree credits is at the time of registration.
Grade Type: Letter Grade
Prerequisite(s): EGR 101 and Permission of the Dean

ENG 100 - Introduction to Technology in Literary Studies

Units: 1
When Offered: OPS
An introduction to the English major in the online modality with a focus on applying a Christian worldview to study of English. Introduces students to a range of online discussion tools and to a range of professions in which the English major can be applied.
Grade Type: Pass/Fail

ENG 101 - Introduction to the Discipline

Units: 1
When Offered: Fall
This course introduces a consideration of personal worldview, faith, and the discipline of English, including literary studies and creative writing. It is also designed to introduce students to the basic skills necessary for academic success in the discipline of English and to provide students with an overview of the discipline including requirements of the major and expectations of professions in which that major may be applied.
Grade Type: Pass/Fail

ENG 113 - Composition

Units: 3
When Offered: Fall, Spring, & OPS
This is a process-based writing class that focuses on academic writing, reading, and critical thinking as expressed in expository and analytical writing assignments through 5 to 7 substantial essays over the course of the semester.

Develops fluency, coherence, style, effectiveness, and literary analysis. Students must pass this course with a C- or better or demonstrate a comparable level of writing competence to fulfill general competency requirements and to proceed to ENG 123 - Intermediate Composition. Students may only earn credit for ENG 113 or ENG 113E - Composition Enriched with Lab.
Grade Type: Letter Grade

ENG 113E - Composition Enriched with Lab

Units: 4
When Offered: Fall, Spring
This is a process-based writing class enriched with a paired writing lab and a cohort model that focuses on academic writing, reading, and critical thinking as expressed in expository and analytical writing assignments through 5 to 7 substantial essays over the course of the semester. Develops fluency, coherence, style, effectiveness, and literary analysis. It provides students with additional opportunity for close attention to the fundamentals of written communication and revision. By learning in a collaborative writing community, students will develop effective strategies in generating and developing ideas, giving and receiving feedback, and reading and analyzing texts. Students must pass this course with a C- or better to proceed to ENG 123E - Intermediate Composition Enriched with Lab. Students may petition to move into ENG 123 - Intermediate Composition. Students may only earn credit for ENG 113 - Composition or ENG 113E.
Grade Type: Letter Grade

ENG 123 - Intermediate Composition

Units: 3
When Offered: Fall, Spring, & OPS
Continued practice in writing with emphasis on critical thinking, argument, analysis and interpretation of multicultural readings and other interdisciplinary expository materials. Includes the writing of a major research paper (or report) in addition to several shorter essays requiring various types of documentation. Students may only earn credit for ENG 123 or ENG 123E - Intermediate Composition Enriched with Lab.
Grade Type: Letter Grade
Prerequisite(s): ENG 113 or 113E with a grade of C- or better or evidence of a comparable level of writing competence.
Note: Students must successfully complete this course with a grade of C- or better or demonstrate a comparable level of writing competence to fulfill general education requirements and to begin any literature course.

ENG 123E - Intermediate Composition Enriched with Lab

Units: 4
When Offered: Fall, Spring
This course provides students with continued practice in writing and research in the enriched environment of a writing lab and a cohort model. It emphasizes critical thinking, argument, analysis and interpretation of multicultural readings and other interdisciplinary expository materials, providing students with additional time to gather, interpret, and integrate interdisciplinary research into the writing of a research paper (or report). Researching and writing within a community supports students' individual growth of written communication as well as public engagement of ideas through informal discussion and formal presentation. Students must pass this course with a C- or better. Students may only earn credit for ENG 123 - Intermediate Composition or ENG 123E.
Grade Type: Letter Grade
Prerequisite(s): ENG 113E with a grade of C- or better or evidence of a comparable level of writing competence.

ENG 200 - Special Topics in English

Units: 3
When Offered: As offered
Focuses on a different phase of British, American or world literature each time offered-themes, genres, periods. See instructor for the topic currently to be studied.
Grade Type: Letter Grade

ENG 201 - Introduction to Literature

Units: 3
When Offered: Fall, Spring, & OPS
An introductory study of literary terminology and the major genres of American, British, European, and multicultural literature. Focuses on critical reading and intelligent appreciation of literature and of the ways of writing about literature.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 213 - British Literature Pre-1750

Units: 3
When Offered: Spring (even years) & OPS
Literature of Great Britain from the Middle Ages through the eighteenth century.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 223 - British Literature Post-1750

Units: 3
When Offered: Spring (even years)
Literature of Great Britain from the Romantic Period to the present.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 233 - American Literature Pre-1865

Units: 3
When Offered: Fall & OPS
American Literature from the Colonial Period to 1865.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 243 - American Literature Post-1865

Units: 3
When Offered: Spring
American literature from 1865 to present.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 253 - World Literature Pre-1650

Units: 3
When Offered: Fall (odd years)
World literature (excluding British and American) through the Renaissance.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 263 - World Literature Post-1650

Units: 3
When Offered: Fall (even years)

World literature (excluding British and American) from Neoclassicism to present.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 273 - Introduction to Creative Writing

Units: 3
When Offered: Fall, Spring, & OPS
This course introduces the creative writer to the literary genres, encouraging creativity, individuality, spontaneity and boldness for students in search of the writer within. The lecture/discussion is designed to help students develop a writing voice and work toward a final project in one of the major genres.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 100, 101, 123, or 123E

ENG 302 - Professional Writing

Units: 3
When Offered: Fall (even years)
This course studies writing within the diverse environment of the workplace. It emphasizes the need to adapt written documents for a distinct task, audience, or platform. The course introduces students to professional and technical writing through examination and evaluation of interdisciplinary readings and representative models of professional documents-both print and digital. The course will incorporate strategies for developing and improving skills in writing, reading, researching, editing, presenting, and collaborating. Students will demonstrate an understanding of effective practices through a portfolio of professional documents.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 303 - Topics in World Literature

Units: 3
When Offered: As offered & OPS
An intensive study of a particular area of world literature in translation (e.g., Greek drama, or the literature of Existentialism). See the instructor for the area currently being studied. May be offered as a dual-language topic such as Latin American authors.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 313 - American Multicultural Literature

Units: 3
When Offered: Spring & OPS
The literature of women and ethnic minorities. Recommended for Liberal Studies majors. At least one literature survey course recommended.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 314 - Global Literature

Units: 3
When Offered: Fall
This course offers students an intensive study of global literature with an emphasis on works translated into English, excluding American literature. Students will study literature and cultures from around the world, equipping them to broaden their engagement in academic studies and Great Commission service. It is recommended that at least one literature survey course be taken prior.

Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 323 - Classical Literature

Units: 3
When Offered: Spring
This course explores the intellectual contributions of Classical Literature by examining the meaning of these works within historical, political, and cultural context of Classical society.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 333 - Seventeenth Century British Literature

Units: 3
When Offered: Fall (odd years)
The Metaphysical and cavalier Poets, and the prose of John Milton, in historical context.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or ENG 123E

ENG 343 - Eighteenth and Nineteenth Century British Literature

Units: 3
When Offered: As offered & OPS
Neoclassical, Romantic, and Victorian literature in historical context.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 345 - Nineteenth Century American Literature

Units: 3
When Offered: Spring (odd years)
American literature and thought, 1800-1914, with emphasis on Poe, Hawthorne, Emerson, Dickinson, Douglass, Whitman, Melville, Stowe, and Twain.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or ENG 123E

ENG 350 - Research and Writing in Literature and Language

Units: 3
When Offered: OPS
Introduction to research topics, methods, and materials in the field of language and literature for application in a series of scholarly papers and presentations of various types and lengths.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 353 - Introduction to Children's Literature

Units: 3
When Offered: Fall, Spring, & OPS
An introduction to the study of a wide variety of children's literature, including picture books, novels, poetry, and folklore. Focus on critical analysis of texts, employing a variety of literary theoretical perspectives, close readings, and contemporary research. Also examines the historical constructions of childhood, uses within the elementary classroom, and social response to children's literature. Meets the Liberal Studies requirement for Children's literature.

Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 354 - Children's Classics

Units: 3
When Offered: Fall (odd years)
A consideration of children's classics, including but not limited to texts from "Golden Age" of children's literature, approximately 1865-1914. Focus on critical analysis of texts, employing a variety of literary theoretical perspectives, close readings, and contemporary research. Also examines the historical constructions of childhood and social responses to children's literature. Students will examine the texts in light of literary, historical, social contexts.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 355 - Folklore and Fairy Tales

Units: 3
When Offered: Fall (even years)
A close examination of selected folklore and fairy tales from various cultural or literary traditions. Focus on interpretation and analysis of individual texts, utilizing a variety of historical and contemporary critical approaches to reading, understanding, and researching folklore and fairy tales as a distinctive genre.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 360 - Detective Fiction

Units: 3
When Offered: OPS
Detective Fiction is an historical approach to the detective fiction genre and its impact on Western society. The class explores issues of knowledge production, detection, policing, and identity through drama, novels, short stories, and film.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 363 - Introduction to Young Adult Literature

Units: 3
When Offered: Spring & OPS
Introduction to literature designed to meet the unique needs of adolescents and young adults. Varied uses of literature such as poetry and short stories will be explored with intensive study of longer works of fiction and non-fiction.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 365 - Christian Classics

Units: 3
When Offered: Spring (odd years)
Surveys some of the great literary texts in the Christian tradition. Readings from primary works will provide opportunity to become familiar with a variety of voices in the history of Christian spirituality. Students will examine the texts in light of literary, historical, social, and theological contexts. Authors and texts may vary each time the course is offered.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 366 - Faith and Literature

Units: 3
When Offered: Fall (even years)
The course is designed to examine the study of literature through the lens of faith. It considers the intersection of personal belief and reading practices, the analysis of literature, both religious and secular, from a Christian worldview, and potential avenues of Christian literary theory. It requires students to evaluate and analyze both literary texts and approaches to literature, with each student formulating a formal position in regard to the intersection of faith and literature.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 371 - The Graphic Novel

Units: 3
When Offered: Fall (odd years)
The class represents a close examination of select graphic novels from a variety of genres and styles. It focuses on literary interpretation and analysis of individual texts, utilizing a variety of historical and contemporary critical approaches to reading, understanding, and researching the graphic novel within an interdisciplinary context.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E (Recommend: ENG 201)

ENG 382 - Introduction to Digital Studies

Units: 3
When Offered: Fall (odd years)
This course introduces students to the growing field of digital studies. Given the interdisciplinary nature of digital studies, students will study digital texts and projects and will work collaboratively to evaluate, develop, and refine their technical skills to create and edit various forms of digital publications.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 384 - Writing Fiction

Units: 3
When Offered: Fall
An intensive writing workshop designed to permit the student to study and practice fiction in various forms: articles, short stories, novels, etc.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 385 - Writing Poetry

Units: 3
When Offered: Spring
This college course is an intensive workshop designed to encourage creativity in poetry. The class offers specific writing direction plus critical responses to students' works, both creative and analytical.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 386 - Writing Creative Nonfiction

Units: 3
When Offered: Fall (odd years)
An intensive writing workshop designed to permit the student to study and practice creative nonfiction in various forms: personal narrative, topical essay, lyric essay, memoir, etc.

Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest. Other courses listed in the catalog may not be taken by independent study.
Grade Type: Letter Grade

ENG 400 - Special Topics in English

Units: 3
When Offered: As offered
Focuses on a different theme, genre, or period of British, American, or World literature each time offered. See instructor for topic currently to be studied.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 401 - Literary Theory and Criticism

Units: 3
When Offered: Spring & OPS
Advanced study in theories of imaginative literature and in the issues of interpreting literary texts.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E, and 201 as well as at least one literature survey course are required

ENG 409 - Good Books

Units: 3
When Offered: Spring (odd years)
This course offers students intensive study of print culture, particularly in regard to the history of the book, as found in American, British, and/or world literature. The course may focus on a particular genre, such as the novel, the autobiography, or the chapbook, or on a particular subgenre, such as the gothic or satirical novel. This study will also equip students to understand how books within the discipline of English shaped and were shaped by various historical, cultural, economic, philosophical, and social forces. It is recommended that at least one literature survey course be taken prior.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 411 - Special Topics in Creative Writing

Units: 3
When Offered: Fall (even years)
Focuses on different styles or aspects of creative writing each time offered-for example, creative non-fiction, storytelling, etc. See instructor for the topic currently to be studied.
Repeatable: May be repeated one (1) time for credit with a change in topic
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 413 - Shakespeare Studies

Units: 3
When Offered: Fall & OPS

Selected poems and plays are studied in their historical contexts. A variety of critical approaches are incorporated. Includes comedies, history plays, and tragedies.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 420 - Special Topics in American Literature

Units: 3
When Offered: As offered
This course offers students intensive study of a special topic in American literature. Students will study a specific theme, author, genre, or period within the broad literary history of the United States. This study will equip students to broaden their engagement in American literature. It is recommended that at least one literature survey course be taken prior.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 430 - Special Topics in British Literature

Units: 3
When Offered: As offered
This course offers students an intensive study of a special topic in British Literature. Students will study a specific theme, author, genre, or period within the broad literary history of Great Britain. This study will equip students to broaden their engagement in British literature. It is recommended that at least one literature survey course be taken prior.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 431 - Literary Journal Editing and Publishing

Units: 3
When Offered: Spring
In this course students assist in all aspects of the publication of the campus literary journal. Students read submissions of poetry, fiction, and creative nonfiction, they work with writers to edit their pieces, and they assist with layout and design.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 432 - Sociolinguistics

Units: 3
When Offered: As offered
Sociolinguistics is the study of the relationship between language and society. This course explores key areas within the field of sociolinguistics. It also gives students practice in reflecting on how sociolinguistics of English and other languages affects how they speak. Students will investigate a topic in sociolinguistics and write a review of literature about it as well as develop a language policy report.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 434 - Major Christian Authors

Units: 3
When Offered: Spring (even years) & OPS
Focuses on the development of style, themes, and worldview in a body of work by concentrating on no more than three Christian authors per semester, such as C.S. Lewis, J.R.R. Tolkien, Flannery O'Connor, Li-Young Lee, or Shusaku Endo. Explores this body of work in depth from the British, American, or world traditions. See instructor for the

current author(s).
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 440 - Modern American Literature

Units: 3
When Offered: Fall (even years) & OPS
Major fiction and poetry from 1900 to World War II.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 442 - Teaching Second Language Writing

Units: 3
When Offered: Fall
This course prepares students to teach writing to second language learners, especially but not exclusively at the college level. Course materials and activities focus on current composition philosophy, research-based method and teaching techniques for collegiate level second language writing courses. At a minimum, this course is designed to introduce students to major theories, research, and practice in the teaching of English writing to second language learners. Thus, students should complete this course being able to do what ESL/EFL writing instructors do: design lesson plans for college composition; evaluate (read, respond to, grade, and assess) college level writing; and engage in research in at least one relevant issue in ESL/EFL composition pedagogy. This course should train students to be reflective practitioners and researchers of collegiate level English composition.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 443 - Contemporary American Literature

Units: 3
When Offered: Spring (even years)
Major fiction and poetry from World War II to the present.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 446 - Teaching Second Language Reading

Units: 3
When Offered: Spring
This course will be about reading in a second language, primarily, but not exclusively English. In particular, the class will emphasize teaching reading in English to learners whose native language is not English. Since research and theory inform sound pedagogical practice, we will also research and review research on a variety of relevant topics to teaching reading from both linguistic and educational perspectives. Finally, given the importance of literacy in so many contexts today, we will consider a multitude of variables which affect the teaching and learning of reading skills for both children and adults, in second and foreign language settings, and explore the implications of the research for all concerned.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 452 - Second Language Curriculum Development and Assessment

Units: 3
When Offered: Spring
This course is designed for future ESL teachers who are interested in current thinking and research in second language material development and assessment and in the application of such in classroom teaching. There are two major goals:

one is developing a solid understanding of the core issues in these areas and the other, which requires students to design their own materials and assessment tools and to evaluate existing ones, is facilitating the application of such an understanding in classroom teaching.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 454 - Writing in Context

Units: 3
When Offered: Spring
This course will provide a practical, hands on approach to the study of English grammar and the application of the acquired knowledge of grammar to the classroom setting. It will be assumed that few, if any, students have had a thorough, formal study of English grammar. The approach will seek to present models for application in the literature based curriculum prescribed by the California State Framework in English. Students will complete numerous in class exercises as well as independent work outside of class for presentation in discussion at subsequent class meetings.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 460 - Modern and Contemporary British Literature

Units: 3
When Offered: Spring (even years)
Prose, fiction, poetry, and drama from 1890 to the present, with emphasis on the Modernist writers.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 463 - Language Structure and Acquisition

Units: 3
When Offered: Fall, Spring, & OPS
Linguistic theory and method. Includes the study of the five universal elements of language (phonology, morphology, semantics, syntax, and pragmatics) as well as the use of language and its variants in culture. Fieldwork required.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 472 - Theory and Methods of TESOL

Units: 3
When Offered: Fall
This course will focus on the application of linguistic theory in education. Students will be introduced to various teaching philosophies and methodologies, focusing on their application to language learning. Students will be familiarized with various movements in education and psychology such as behaviorism, cognitivism, social constructivism, and humanism. Students will be instructed as to how diverse language teaching methods have been informed by various educational movements and how these philosophies and methods take form in the second language classroom. This course will build on the concepts taught in Language Structure and Acquisition but will focus more on second language learners both in ESL and EFL settings.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

ENG 484 - Advanced Fiction Writing

Units: 3
When Offered: Spring
This advanced writing workshop builds on the foundational elements of fiction writing learned in previous coursework. Students read numerous published short stories and novellas, as well as readings discussing craft, technique, and

theory. Students choose to write a novella or two substantial short stories, which are discussed by the professor and students on scheduled workshop days. The works produced in this class strive to be of publishable quality.
Grade Type: Letter Grade
Prerequisite(s): ENG 384

ENG 485 - Advanced Poetry Writing

Units: 3
When Offered: Fall (odd years)
This advanced writing workshop builds on the foundational elements of poetry writing learned in previous coursework. Students read numerous published poems and poetry collections, as well as readings discussing craft, technique, and theory. Students write their own poems, which are discussed by the professor and students on scheduled workshop days. The works produced in this class strive to be of publishable quality.
Grade Type: Letter Grade
Prerequisite(s): ENG 385

ENG 491 - Internship

Units: 3
When Offered: Fall, Spring, Summer
The purpose of this course is to provide students the opportunity to practice the written, oral, research, analytical, and/or technological skills developed in their field(s) of study under the direct supervision of a practitioner in a professional field. In consultation with the internship coordinator, the student works in the field through supervised practical experiences with a professional organization. This opportunity is available for students who are English majors/minors, writing and digital studies minors, creative writing minors, and creative writing BFA students.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

ENG 498 - Capstone in Creative Writing

Units: 3
When Offered: Spring
In this capstone course students rewrite and edit their best creative work to form a collection of poems or short stories or a novella. They must also write a critical introduction to their work, discussing other literary works while situating their own writing in a particular discourse.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

ENG 499 - Capstone Project

Units: 3
When Offered: Spring & OPS
This three unit senior capstone project serves to assess the subject matter competence of the English major and the Single Subject Program candidate. Students will enroll for this course with the recommendation of their English program advisor and the approval of the department chair.
Grade Type: Letter Grade
Prerequisite(s): ENG 350

ESL 007 - English Foundations

Units: 1
When Offered: As offered
This course is intended for the low beginning ESL student. Students develop reading, writing, listening and speaking skills necessary for participation in classroom discussions and to be able to successfully matriculate into the CBU ESL Intensive English Program (IEP).

Grade Type: Pass/Fail
Class hours: 3 Lecture hours/week

ESL 008 - Pronunciation I

Units: 1
When Offered: As offered
Students will learn the rhythm and intonation of English which will help them to make significant strides in their ability to understand and communicate with others.
Grade Type: Pass/Fail
Class hours: 1.5 Lecture hours/week

ESL 009 - Pronunciation II

Units: 1
When Offered: As offered
Students continue to develop rhythm and intonation of American speech patterns. They will learn to recognize and pronounce the individual sounds of English. Students will examine the English spelling system to identify the discrepancy between spelling and sounds.
Grade Type: Pass/Fail
Class hours: 1.5 Lecture hours/week

ESL 010 - Reading and Academic Vocabulary I

Units: 3
When Offered: As offered
Students will learn strategies that will help them become more proficient readers of English. These skills include previewing, finding the main idea, outlining, scanning, and detecting sequence. Reading selections will be both academic and of general interest. Students will strengthen comprehension skills through various exercises. Attention will be given to building vocabulary and dictionary usage.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week

ESL 011 - Writing and Grammar I

Units: 3
When Offered: As offered
This beginning ESL course emphasizes elementary competency in standard written English with a focus on basic grammar and writing skills. Emphasis will be given to organization and the writing process as well as paragraph development.
Grade Type: Pass/Fail
Class hours: 6 Lecture hours/week

ESL 012 - Listening and Speaking I

Units: 3
When Offered: As offered
Students will develop spoken fluency and listening skills through short social and academic listening, guided class discussions, and presentations. Students will learn both to distinguish and to produce the sounds in English pronunciation as well as proper intonation and word groupings.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week

ESL 014 - Life Skills

Units: 2
When Offered: As offered
This is a four-skills course that integrates language instructions into meaningful, real-life contexts. Students at the beginning level will learn mastery of the English language related to civics, the workplace, the community, and academics. Lessons will cover vocabulary, life stories, grammar, everyday conversation, and real-life reading, carefully developing learners' understanding through the use of all four skills.
Grade Type: Pass/Fail
Class hours: 3 Lecture hours/week

ESL 030 - Reading and Academic Vocabulary II

Units: 3
When Offered: As offered
Students continue to develop academic reading abilities and English vocabulary. In this course, students will read a variety of texts on contemporary academic and literary topics. Text are both academic and of general interest. Vocabulary exercises will relate to reading themes and will reinforce understanding of the passage.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week
Prerequisite(s): ESL 010 or appropriate placement score

ESL 031 - Writing with Grammar II

Units: 3
When Offered: As offered
This course increases competency in standard written English with a focus on low intermediate grammar and writing skills. Writing exercises are primarily academic in nature and include practice in the targeted grammar structure.
Grade Type: Pass/Fail
Class hours: 6 Lecture hours/week
Prerequisite(s): ESL 011 or appropriate placement score

ESL 032 - Listening and Speaking II

Units: 3
When Offered: As offered
This course will include instruction in and practice of intermediate level listening and speaking activities. Listening tasks will include listening to academic lectures, note-taking skills, and organizing information from the notes. Students also practice speech appropriate to both social and academic settings, with emphasis placed on message delivery and content as well as language usage and pronunciation.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week
Prerequisite(s): ESL 012 or appropriate placement score

ESL 034 - American Historical and Cultural Events

Units: 2
When Offered: As offered
This course will provide students with a historical foundation of American culture and experience essential to academic success in American college classes. Students will become familiar with major periods in American history along with related authors, literature, and important personalities of the period leading to a knowledge base common among American college students. Students will understand the historical background behind American holidays and as well as the culture of the American classroom environment.
Grade Type: Pass/Fail
Class hours: 3 Lecture hours/week
Prerequisite(s): ESL 014 or appropriate placement score

ESL 035 - Vocabulary II

Units: 2
When Offered: As offered
In this course, students will focus on learning and retaining new vocabulary as well as common word patterns, collocations, and word forms. They will learn different techniques that can aid in vocabulary retention, as well as being able to utilize the new vocabulary in both university courses and daily life. The focus will be on comprehending and utilizing words from the 2,000 most common English word list.
Grade Type: Pass/Fail
Class hours: 3 Lecture hours/week
Prerequisite(s): ESL 010 or appropriate placement score

ESL 049 - Communication Skills

Units: 1
When Offered: As offered
This course is designed to help students develop skills for academic speaking. A variety of topics include meeting people, asking for information, controlling a conversation, being an active listener, making an appointment, visiting a teacher's office, participating in a group discussion, getting and giving advice, and presenting information to a small group.
Grade Type: Pass/Fail
Class hours: 1.5 Lecture hours/week
Prerequisite(s): ESL 009, 032, or appropriate placement score

ESL 050 - Reading and Academic Vocabulary III

Units: 3
When Offered: As offered
A concentrated reading of textbook-based materials used in American college degree courses; for example, social sciences, hard sciences, education, business, and humanities. Development of comprehension skills to enhance their reading effectiveness and efficiency; may include identification of main ideas and supports, application of personal schema, and analysis of fact-based reading, speaking, listening, and writing is stressed; its use of textual clues, dictionary, and word analysis for learning word meaning.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week
Prerequisite(s): ESL 030 or appropriate placement score and departmental approval

ESL 051 - Writing and Grammar III

Units: 3
When Offered: As offered
Introduction to the techniques and practice of common modes of essay writing: explanatory, persuasive, and argumentative essays. Particular emphasis will be placed on developing academic writing skills that prepare students for college level writing. Logical analysis of components of the essay, integration of evidence from sources, and intensive application of major grammatical systems of English will be emphasized. Lectures will focus on developing high levels of competence in detecting and remedying common ESL writing problems to improve essay clarity and effectiveness.
Grade Type: Pass/Fail
Class hours: 6 Lecture hours/week
Prerequisite(s): ESL 031 or appropriate placement score and departmental approval

ESL 052 - Listening and Speaking III

Units: 3
When Offered: As offered

This course enhances the students' ability to understand basic academic discourse in lectures and to participate meaningfully in group discussions and give oral presentations with correct grammar usage and understandable pronunciation.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week
Prerequisite(s): ESL 032 or appropriate placement score and departmental approval

ESL 053 - Professional English I

Units: 1
When Offered: As offered
This course prepares students to enter Undergraduate and Graduate level courses by practicing all four communicative skills-listening, speaking, reading and writing - using the vocabulary and formats of business communication.
Grade Type: Pass/Fail
Class hours: 3 Lecture hours/week **Lab:** 1 Lab/week
Prerequisite(s): ESL 034 or appropriate placement score and departmental approval

ESL 054 - Preparation for University Success

Units: 2
When Offered: As offered
This course is designed to provide High Intermediate ESL students with the perspectives and strategies common to the American university setting. Refining listening skills, extracting content form lectures, practice with successful participation in classroom discussions, formal writing format styles, and academic usage of internet tools such as e-mail and discussion forums will be reviewed in the context of American university requirements, while exploring related cultural similarities and differences.
Grade Type: Pass/Fail
Class hours: 3 Lecture hours/week
Prerequisite(s): ESL 034 or appropriate placement score and departmental approval

ESL 070 - Reading and Academic Vocabulary IV

Units: 3
When Offered: As offered
Students will gain academic reading proficiency in preparation for the undergraduate level through weekly reading assignments at the advanced level. Students will expand their academic English vocabulary, while learning to integrate meaning and personal analysis of the text. Students will be exposed to various fields of study through weekly readings and learn to engage in intellectual discussion. Students will learn to complete longer reading assignments, complete weekly journal entries, and integrate learned words in classroom discussion.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week
Prerequisite(s): ESL 050 or appropriate placement score and departmental approval

ESL 071 - Writing and Grammar IV

Units: 3
When Offered: As offered
This course is designed to assist students in developing their writing abilities in order to function successfully at the university academic level. The course focuses on learning different academic essay styles, improving writing skills and editing skills, learning to do basic research and citation. The course is designed to push students to excel at a higher level of writing in English, incorporating essential grammar concepts. The course encourages daily interaction, various activities and tactile learning opportunities. The students will complete at least five English essays, increasing in page number and research components.
Grade Type: Pass/Fail
Class hours: 6 Lecture hours/week
Prerequisite(s): ESL 051 or appropriate placement score and departmental approval

ESL 072 - Listening and Speaking IV

Units: 3
When Offered: As offered
Students will practice oral/aural skills within the context of academic content at an advanced level, by listening and responding to recorded lectures, guest speakers, field trips, and video recordings. Students will learn to how to respond in both formal and informal academic settings. Students will be able to give extensive oral presentations and participate on panel discussions. Pronunciation skills and techniques will be taught as needed.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week
Prerequisite(s): ESL 052 or appropriate placement score and departmental approval

ESL 073 - Introduction to Academic Research

Units: 1
When Offered: As offered
This is an advanced level ESL course designed to enhance students' research composition skills in four areas of learning: independent research of thematically organized college level articles using library and web-based sources; critical reading of sources concentrating on thorough comprehension and ability to respond to material in written forms, including responses, paraphrases, summaries, and critiques; academic writing of research paper, incorporating evidence from sources, using a five-step process: explore, focus, organize, create, and refine. Oral presentation of research will be given to prepare students for undergraduate courses in English and in other disciplines.
Grade Type: Pass/Fail
Class hours: 2 Lecture hours/week
Prerequisite(s): ESL 050, 051, or appropriate placement score and departmental approval

ESL 074 - Academic Presentation Skills

Units: 2
When Offered: As offered
This course is intended for advanced ESL students to help them speak more confidently and effectively. Concentration will be on presentational skills such as individual and group oral topic presentations, panel discussions, debates and 4-7 minute individual topic presentations before the class.
Grade Type: Pass/Fail
Class hours: 4 ½ Lecture hours/week
Prerequisite(s): ESL 052 or appropriate placement score and departmental approval

ESL 090 - Advanced Integration of Academic English Skills

Units: 1
When Offered: As offered
This course is designed to provide focused instruction in academic English for prospective graduate students. Specific skills will be taught in the areas of listening, vocabulary, grammatical structures and reading comprehension according to the needs of the student. These skills will aid the student in developing a stronger ability to comprehend lectures, edit their own work, verbalize their opinions and expand their vocabulary in preparation for entering a graduate level program.
Grade Type: Pass/Fail

ESL 093 - Critical Analysis for Academic English

Units: 1
When Offered: As offered
Advanced research course for graduate ESL students in methods of problem analysis: it involves independent research, extensive reading and writing, and discussion of journal articles and textbook based materials. Examination of problem analysis methods may include theories of gap analysis, work performance goals, causes of performance problems, and

methods intervention.
Grade Type: Pass/Fail
Class hours: 4 Lecture hours/week
Prerequisite(s): ESL 073 or appropriate placement score; departmental approval and graduate status

ESL 094 - Advanced Academic Research

Units: 3
When Offered: As offered
The purpose of this course is to give ESL graduate students an introduction to research writing, resources and strategies. Students will gain familiarity and experience with the basic steps of researching, writing, and submitting research papers. Students will be prepared to research and write scholarly papers in their chosen graduate fields of study, becoming familiar with the standards for publishing articles and papers within that field.
Grade Type: Pass/Fail
Prerequisite(s): ESL 071

ESL 200 - Special Topics

Units: 1-4
When Offered: As offered
Focuses on specific areas of academic disciplines to further prepare for continuation in traditional coursework.
Repeatable: May be repeated for a maximum of eighteen (18) unit with change in topic
Grade Type: Pass/Fail

ENT 357 - Small Business Management

Units: 3
When Offered: Fall, Spring
This is a practice-oriented course covering major facets of small business with special focus on starting, financing, marketing, operating, and leading the people in a small business. Special emphasis is given to entrepreneurship and small business development.
Grade Type: Letter Grade

ENT 362 - Social Entrepreneurship

Units: 3
When Offered: Spring (even years)
This course defines and explores the growing practice of social entrepreneurship and its impact here in the United States and around the world. The focus is on applying business skills and knowledge in a way that creates social change.
Grade Type: Letter Grade

ENT 442 - Opportunity and the Lean Startup

Units: 3
When Offered: Fall, Spring
Students learn to recognize the difference between ideas and opportunities for the purpose of evaluating the likely commercial success of business concepts and ideas, using Lean Startup theory and experiments. The course is also suitable for non-business majors to learn how to evaluate an idea in their field or discipline as a potential entrepreneurial opportunity.
Grade Type: Letter Grade

ENT 462 - Entrepreneurial Behavior and Leadership

Units: 3
When Offered: Fall (odd years)
An examination of theory and practice regarding behavior and leadership in organizations that leads to excellent job performance with particular focus on entrepreneurs, entrepreneurial leaders, and job performance in entrepreneurial organizations.
Grade Type: Letter Grade

ENV 110 - Introduction to Environmental Science with Lab

Units: 4
When Offered: Fall
This interdisciplinary class approach to our environment emphasizes the study of the physical, chemical, biological problems of the Earth. It includes human interactions with the environment, the impact of human development, and technology on the quality of natural resources and living organisms.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee

ENV 151 - Introduction to the Geosciences

Units: 3
When Offered: Fall, Spring, & OPS
A general study of the geosciences including the areas of astronomy, meteorology and climate, geology, and oceanography.
Grade Type: Letter Grade

ENV 151L - Introduction to the Geosciences Lab

Units: 1
When Offered: Fall, Spring, & OPS
A laboratory experience designed to illustrate and reinforce geosciences principles and to introduce basic geosciences laboratory techniques.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): ENV 151

ENV 310 - Sustainable Agriculture and Population Dynamics

Units: 3
When Offered: Spring (odd years)
This course explores diverse aspects of agriculture and agriculture sustainability, primarily from various natural science perspectives. Techniques of organic and sustainable agriculture will be emphasized. This course also touches on the social, political, and economic forces that relate to farming communities, food production and distribution, and consumption.
Grade Type: Letter Grade

ENV 350L - Urban Agriculture Lab

Units: 1
When Offered: Fall (even years)
This laboratory experience is designed to teach students about the basic concepts of urban agriculture. Students will gain hands on experience in the field of urban agriculture ranging from topics such as hydroponics, soil quality, composting, worm farming, erosion control, plant cloning and propagation, micro-greens, and how to grow food in planter boxes or small containers. Students will be taught a wide range of agricultural principles related to urban

farming, urban gardening, and how to grow and distribute food locally in a sustainable system.
Grade Type: Letter Grade

ENV 360 - Environmental Chemistry with Lab

Units: 4
When Offered: Spring (odd years)
Environmental Chemistry is intended to provide the student with an understanding of the key environmental problems our world faces, by exploring the chemistry of our air, water, and soil and integrating this in order to describe human and ecological exposures to chemicals in the environment.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 125, 125L, and either BIO 146 or 148

ENV 370 - Soil and Water

Units: 3
When Offered: Spring (even years)
This course assesses the importance of soil and water as natural resources for ecosystems and societies. Soil and water resources, soil erosion, government conservation programs, water conservation, irrigation, salinity and drainage will be discussed. Understanding the principles of the soil water cycle to improve water use efficiency of dry land and irrigate systems. Understand how to utilize soil resource assessment tools to make land management decisions.
Grade Type: Letter Grade
Prerequisite(s): ENV 110

ENV 380 - Environmental Science Seminar

Units: 1
When Offered: Spring
An introduction to performing environmental science research including lectures and discussions on literature research, scientific writing, reading scientific journal articles, public speaking, Job interview and resume preparation, and professional conduct. Students make both written and oral presentations on topics in Environmental Sciences.
Grade Type: Letter Grade

ENV 390 - Stewardship of the Environment

Units: 3
When Offered: Fall (even years)
Show the effect of human on a local, regional, and global scale of biodiversity and environment. Topics include sustainability, environmental changes, alternative energy, global warming, deforestations, and environmental quality. Case studies will be used to examine environmental issues associated with a human population.
Grade Type: Letter Grade
Prerequisite(s): ENV 110

ENV 400 - Special Topics in Environmental Science

Units: 1-4
When Offered: As offered
Concentration upon a specific topic in the field of Environmental Science. Topic varies for different semesters.
Repeatable: May be repeated for a maximum of eight (8) units with change in topic
Grade Type: Letter Grade

ENV 400L - Special Topics in Environmental Science Lab

Units: 1
When Offered: As offered
This laboratory course will be offered in conjunction with the special topics course to provide instruction with hands on experience. Topic varies for different semesters.
Repeatable: May be repeated one (1) time with change in topic
Grade Type: Letter Grade
Fee: Additional lab fee

ENV 410 - Social Issues and Sustainable Development

Units: 3
When Offered: Fall (odd years)
This course will review the major social issues of the four "underdeveloped" continents (Africa, Asia, Latin America, and the Middle East), and examine sustainable development practices and principles which impact those issues. Students will be introduced to the United Nations Sustainable Development Framework of 1) Social and Economic Development, 2) Natural Resources Management, 3) Stakeholders, and 4) Means of Implementation, and various other conceptual models of development. Among the pressing social issues considered include poverty due to land degradation and desertification, infrastructure in slums and refugee conditions, access to clean water, low-cost-high-safety housing, and disease prevention.
Grade Type: Letter Grade

ENV 430 - Sustainability and Conservation with Lab

Units: 4
When Offered: Spring (odd years)
Sustainability and Conservation is the science of preserving biodiversity and sustaining the earth. This is an interdisciplinary course that examines the human impact on biodiversity and the earth. The course synthesizes the fields of ecology, environmental science, evolution, genetics, philosophy, economics, sociology, and political science, with emphasis on the development of strategies for preserving populations, species, biological communities, and entire ecosystems.
Grade Type: Letter Grade

ENV 450 - Environmental Organic Chemistry with Lab

Units: 4
When Offered: Fall (odd years)
This course focuses on the fundamental processes that govern the fate and transport of anthropogenic organic chemicals in the natural environment. This course explores chemical and physical properties of organic contaminants, relationship for organic chemicals solubility and partitioning between the phases of interest; water, soil, air, and biota, and transformation processes.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 125, 125L, and ENV 360

ENV 451 - Advanced Geoscience with Lab

Units: 4
When Offered: Fall, Spring
An advanced study of the geosciences including the areas of astronomy, meteorology and climate, geology, and oceanography. The laboratory experience is designed to illustrate and reinforce geosciences principles and to introduce basic geosciences laboratory techniques.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 115 and 115L

ENV 470 - Advanced Environmental Science with Lab

Units: 4
When Offered: Spring (even years)
Explores the fundamental principles of and issues of environmental studies including the history of environmental concerns, biomes, species interactions with each other and their environment, air, water, soil and biological resources. Topics include soil science and soil as a natural resource, physical and chemical aspects of the atmosphere and water resources.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee
Prerequisite(s): CHE 115, 115L, and ENV 110

ENV 490 - Research in Environmental Science

Units: 1-4
When Offered: Fall, Spring, Summer
This class focuses on laboratory and field research projects and topics of current or historical interests in environmental science. Individual research on a problem relating to environmental science will be conducted under the guidance of an instructor.
Repeatable: May be repeated for a maximum of eight (8) units with change in topic
Grade Type: Letter Grade
Prerequisite(s): ENV 470 and permission of the Department Chair

ENV 495 - Field Practicum

Units: 3
When Offered: As offered
This course is designed to allow students to participate in an extended discipline specific experience through approved programs in the area of environmental science. In addition to the required field experience, it is designed to be an exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained through their course of study and practicum. Students in this course will prepare a presentation (both written and oral) that will focus on that experience.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

ENV 495G - Field Practicum

Units: 3
When Offered: As offered
This course is designed to allow students to participate in an extended discipline specific experience through approved programs in the area of environmental science. In addition to the required field experience, it is designed to be an exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained through their course of study and practicum. Students in this course will prepare a presentation (both written and oral) that will focus on that experience. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in a global setting.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Fee: Additional trip fee(s)
Prerequisite(s): Permission of the Department Chair

FLM 105 - Introduction to Film

Units: 3
When Offered: Fall, Spring
This course offers an introduction to methods and approaches for the study of film. Students will learn film terminology and its effective application in film analysis. Students also will develop, maintain, and improve strategies for close-reading individual shots and sequences, interpreting cinematic narrative and technique, and for negotiating various critical and theoretical paradigms of film study.
Grade Type: Letter Grade

FLM 150 - Film History

Units: 3
When Offered: Spring
This course studies the development of film history from its beginnings in the late nineteenth century up to the present day. As the growth of cinema has been a global phenomenon, we will look at major films, filmmakers, and film movements in the United States and around the world.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): ENG 123 or 123E, and FLM 105

FLM 200 - Special Topics in Film

Units: 3
When Offered: As offered
This course focuses on a different subject in the field of cinema studies each time it is offered. Designed to reflect both our rapidly changing culture and the technologically progressive nature of the film industry, this course is devoted to a critical examination of film with regard to, for example, time period, genre, theme, etc.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): FLM 250

FLM 210 - Film Genre

Units: 3
When Offered: As offered
This introduction to genre studies will survey the development of at least one major film genre, such as the Western, the romantic comedy, the war film, or film noir. Alternatively, several genres may be covered in one semester. Assigned films will be accompanied by readings in relevant critical and literary texts. Contact professor for specific content information.
Grade Type: Letter Grade
Prerequisite(s): FLM 105 or 150

FLM 250 - Film Theory and Criticism

Units: 3
When Offered: Spring
This course introduces students to the major areas and concepts of film theory and criticism, from their inception in the early twentieth century to the present. It examines how various film theories, as part of a long-standing tradition of critical reflections on life and the arts in general, evolve and interact with one another and with neighboring discourses, nationally and internationally. Knowledge and skills gained in this class will prepare students for further upper-division film courses, in which film theory and criticism will function as important analytical tools.
Grade Type: Letter Grade
Prerequisite(s): FLM 105 and 150

FLM 300 - National Cinema

Units: 3
When Offered: Spring (even years)
National Cinema is an advanced course focusing on the most significant films and filmmakers of one country. It looks at cinematic history and practice in the nation being covered and may include a consideration of popular, independent, and/or art film. The course may cover the entire history of cinema in one nation or focus on a particular type of film or cinematic movement in one country. Special attention will be paid to the socio-historical contexts of the films assigned during the course.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): FLM 150

FLM 301 - Basic Screenwriting

Units: 3
When Offered: Fall
This course is an introduction to the basic principles of writing for the screen. The elements of theme, plot, character, and dialogue in dramatic writing for cinema will be studied. Students will learn how to construct screenplays by closely examining produced films, reading film scripts, and writing their own short screenplays. The course will provide a foundation in the basics of the three-act act structure, dramatic action, character arc, the revision process, and an introduction to the business of screenwriting. By the end of the semester, students will have produced and polished a twenty- to thirty-page screenplay for a short film suitable for production.
Grade Type: Letter Grade
Prerequisite(s): ENG 113 or 113E, and FLM 105

FLM 302 - Writing Short Screenplays

Units: 3
When Offered: Spring (odd years)
This course is an intermediate level treatment of the principles of writing for the screen. It expands on the concepts covered in FLM 301 - Basic Screenwriting, deepening the students' knowledge of the elements of theme, plot, character, and dialogue in dramatic writing for cinema while building the students' skills in the development of these elements in their own writing. By the end of the semester, students will have produced and polished screenplay for a one-hour film.
Grade Type: Letter Grade
Prerequisite(s): ENG 113, 113E, or FLM 105

FLM 303 - Asian Cinema

Units: 3
When Offered: As offered
This survey course offers a unique opportunity to screen and study technically innovative and culturally significant feature films from China, India, Japan, South Korea, Vietnam, Hong Kong, and Taiwan. Special attention will be given to the diverse genres in Asian cinema and the dynamic interactions between filmmaking and socio-historical transformation. An East-West comparative approach will be encouraged.
Grade Type: Letter Grade
Prerequisite(s): FLM 105 and 150

FLM 305 - Christianity and Film

Units: 3
When Offered: Spring (odd years)
This course centers on the close reading of both religious and secular filmic texts in order to better understand the ideology that is wrapped within these artifacts of culture. Students will describe and analyze how these cinematic texts communicate both Christian and anti-Christian philosophical and theological arguments, which have the power to shape the horizons of the mind and impact culture.

Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

FLM 320 - Sundance Film Festival with Windrider Forum

Units: 3
When Offered: Spring
This is a course centers on the legendary Sundance Film Festival, including attendance of the festival in Park City, Utah, in conjunction with Fuller Seminary's Windrider Forum, which brings together students from Christian universities all over the US for a colloquium on the relationship between Christianity (and spirituality more generally) and cinema.
Grade Type: Letter Grade
Fee: Additional fee
Prerequisite(s): Film major or minor, or permission of the Dean

FLM 340 - Major Directors

Units: 3
When Offered: Fall (odd years)
With attention to theories about authorship and the auteur, this course surveys the work of one or two major directors. This course may treat a canonical auteur, such as Orson Welles, Alfred Hitchcock, or Akira Kurosawa, or may focus upon figures historically marginalized within cinema studies, such Oscar Micheaux, Ida Lupino, or Sam Fuller.
Grade Type: Letter Grade
Prerequisite(s): FLM 150

FLM 350 - Film and Literature

Units: 3
When Offered: Fall
This course addresses the adaptation of literature to film. It examines diverse concepts and theories that have been applied to cinematic adaptations of literary texts as part of a larger constellation of issues, including the development of cinematic language, approaches to genre studies, and an appreciation for cinematic visions in literary texts. In addition to film screenings, course readings will include prose fiction and film criticism.
Grade Type: Letter Grade
Prerequisite(s): ENG 123 or 123E

FLM 370 - Writing for Streaming Media

Units: 3
When Offered: Fall (even years)
This course is an introduction to the basic principles of writing for streaming media. Students will be immersed in what makes for a successful series comedy or drama script: premise, character, story, scene writing, and dialogue. Several past and current series from broadcast, cable, and streaming platforms will be analyzed throughout the semester. The course will provide a foundation in the basics of writing the scripted series and an introduction to the business of scripted series writing and production. By the end of the semester, students will have written a polished pilot episode script suitable for production.
Grade Type: Letter Grade
Prerequisite(s): ENG 113, 113E, or FLM 105

FLM 390 - Film Industry

Units: 3
When Offered: Fall
This course introduces students to an overview of the film industry broadly and examines the evolving structures of

development, production, and distribution for a worldwide market.
Grade Type: Letter Grade

FLM 399 - Independent Study

Units: 3
When Offered: As offered
This course is designed to afford the superior student an opportunity to work independently on subject matter of the student's choosing. Supervision and evaluation will be provided by a member of the Film Studies faculty.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

FLM 400 - Special Topics in Film

Units: 3
When Offered: As offered
This course focuses on a different subject in the field of cinema studies each time it is offered. Designed to reflect both our rapidly changing culture and the technologically progressive nature of the film industry, this course is devoted to a critical examination of film with regard to, for example, time period, genre, theme, etc.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): FLM 250

FLM 403 - Writing Adapted Screenplays

Units: 3
When Offered: Spring (even years)
This is a course in the art of writing a feature-length film script based on a piece of literature or other literary material. Contemporary feature film structure paradigms will be reviewed as the student (individually or in pairs) crafts their own feature-length screenplay from a self-selected literary source. The art of the studio "pitch" used to sell a screenplay also will be reviewed and practiced.
Grade Type: Letter Grade
Prerequisite(s): ENG 113, 113E, or FLM 105

FLM 420 - Independent Film and Counter-Cinema

Units: 3
When Offered: Fall (even years)
Independent Film and Counter-cinema is an advanced course that studies diverse film texts considered "independent" while examining the varied and constantly evolving definition of independent film. In addition, the course investigates counter-cinema -- film that actively opposes mainstream cinema, offering alternative discourses -- and explores the complex relationship between independent film and counter-cinema.
Grade Type: Letter Grade
Prerequisite(s): FLM 250

FLM 430 - Film and Sound

Units: 3
When Offered: As offered
Thoughtfully addressing the importance of film's auditory component, which is often ignored or taken for granted by visually-dominated studies of the moving pictures, this course critically engages the importance of sound to cinema, from a theoretical as well as a historical perspective.
Grade Type: Letter Grade
Prerequisite(s): FLM 250

FLM 450 - World Cinema

Units: 3
When Offered: Fall
World Cinema is an advanced course focusing on films made outside of North America and their socio-historical contexts. It looks at cinematic history and practice in diverse nations and introduces students to a range of non-Hollywood film styles and forms, including popular and art cinemas, from across the globe.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): FLM 250

FLM 470 - Adaptation and Intertextuality

Units: 3
When Offered: Spring (odd years)
This advanced course focuses on diverse texts and theories regarding adaptation and intertextuality as they impact film and other media. The course explores the ways in which texts are adapted from one medium into other media and the ways in which texts intersect and communicate with one another. The complex manner in which adaptation and intertextuality function in our media-saturated, global culture is investigated. Texts that might be examined in this course include films, video games, television shows, novels, comics/graphic novels, operas, and musicals. Course content will vary.
Grade Type: Letter Grade
Prerequisite(s): FLM 250

FLM 491 - Film Practicum

Units: 1-15
When Offered: As offered
Students participate in an internship experience in some aspect of the Hollywood film or television industry. These are non-paying positions that may be part of an actual Hollywood film or television production, or similar entertainment industry experience with development companies, agencies, producers, etc. Unit value will vary in relation to time commitment and the individual's learning contract. Students will be supervised by a member of the Film Studies faculty.
Grade Type: Letter Grade
Prerequisite(s): FLM 250 and Junior status

FLM 499 - Senior Capstone Project

Units: 3
When Offered: Fall, Spring
This three-unit senior capstone project serves to assess the subject matter competence of the Film Studies major. During the semester, students will compose a philosophy statement, compile a portfolio of previous work, and complete a capstone paper or film project. The class meets with its instructor one hour per week while completing the tasks of the course.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

FLP 170 - Film Production I: Visual Storytelling

Units: 3
When Offered: Spring
An introduction to the production of visual storytelling content. Each student will write, direct, and edit a series of exploratory production exercises. The primary emphasis is on telling a compelling story by employing basic cinematography, lighting, editing, sound, and on-camera talent to involve an audience emotionally with the characters on screen. This course is restricted to Film majors and minors only.

Grade Type: Letter Grade
Fee: Additional course fee
Pre- or Co- Requisite(s): FLM 105

FLP 180 - Video Editing and Post Production I

Units: 3
When Offered: Spring
A study of advanced cinematic storytelling principles as they are expressed through editing. This course analyzes examples from important films and other media that demonstrate how rhythm, timing, pace, emotion, sound, and other dramatic aesthetics affect the viewer's perceptions and the success of the sequence. Each student will develop technical skills through weekly editing assignments and the completion of a complex editing project. Students learn skills and techniques of cinematic storytelling via the editing and post production processes. The course emphasizes proficiency using a nonlinear editing system, the history of significant achievement in editing, and the editor's unique role in the post production process.
Grade Type: Letter Grade

FLP 306 - Film Production II: Creative Producing

Units: 3
When Offered: Fall
This class will approach film production from prep to post from the perspective of the independent film creative producer, with each student producing and directing two short films in addition to introductory workshops on all the different departments, including technical areas such as grip, electric, and camera. Students will learn how to break down and budget a script, schedule a shoot, create and fill out paperwork, such as deal memos, call sheets, contracts, location scouting, and holding auditions.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): FLP 170
Pre- or Co- Requisite(s): FLM 301

FLP 360 - Cinematography

Units: 3
When Offered: Spring
An introduction to the fundamental tools and principles used by cinematographers to create digital or film images generated from the context of the story. Curriculum covers visualization, digital manipulation, sensitometry, filters and lenses, lighting, color, processing procedures, camera systems, special effects, and image control.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): FLP 306

FLP 380 - Video Editing and Post Production II

Units: 3
When Offered: Fall (even years)
Provides students with an intensive hands-on experience editing under the supervision of the professor while further developing their skills and techniques of cinematic storytelling via the editing and post production processes, with an emphasis on the role of editing on cinematic and artistic masterpieces from every genre while students work on creating their own film festival ready short film from already existing film and sound elements.
Grade Type: Letter Grade
Prerequisite(s): FLP 180

FLP 406 - Film Directing

Units: 3
When Offered: Fall
This course explores a range of ideas, methods, and theories of narrative film directing. While helping students understand the director's complex functions in the creative process of directing, the course mainly focuses on the study of and practice in two areas: directing the camera and directing actors. Significant time is devoted to the understanding of acting and working with actors (casting, rehearsal, character development, and performing for the camera). Students will work in groups on a series of focused short projects to build the creative experience step by step.
Grade Type: Letter Grade
Prerequisite(s): FLP 360

FIN 101 - Personal Financial Management

Units: 3
When Offered: Fall, Spring
An overview of personal financial management offers students power over financial resources, freedom to give generously, and insight for better citizenship. The course emphasizes concepts such as goal setting, budgeting, debt management, investing, major purchases, insurance, and retirement and estate planning.
Grade Type: Letter Grade

FIN 310 - Intermediate Business Finance

Units: 3
When Offered: Fall
An overview of long-term financing topics intended to prepare the students for upper division courses covering additional finance areas. Course includes advanced components of corporate finance with an emphasis on the practices that shape the financial decision-making process. These include risk and return models, valuation of securities, capital budgeting, and capital structure decisions.
Grade Type: Letter Grade
Prerequisite(s): BUS 303

FIN 325 - Financial Markets and Institutions

Units: 3
When Offered: Spring
Students examine the role of regulators, depository institutions, insurance companies, and financial markets in the process of intermediation. Key concepts include interest rate determination, methods of security valuation, managing commercial banking, and risk management in financial institutions.
Grade Type: Letter Grade
Prerequisite(s): BUS 218 and 303

FIN 405 - Financial Analysis and Forecasting

Units: 3
When Offered: Fall
This course covers a more in-depth analysis of financial statements and the integration of financial forecasting based on interpreting financial data and performance. Students will evaluate investment alternatives and apply risk analysis to the valuation process from a decision-makers' perspective.
Grade Type: Letter Grade
Prerequisite(s): BUS 303, 315, and either FIN 310 or ACC 311

FIN 415 - Investments

Units: 3
When Offered: Fall
This course provides an overview of investment principles and practices with an emphasis on financial markets and

pricing models. Topics covered include the securities markets, risk and return relationships, portfolio theory and the capital asset pricing model, debt securities, derivatives, and security analysis covering equity valuation. In addition, the student will participate in a real-time stock market stimulation throughout the course.
Grade Type: Letter Grade
Prerequisite(s): FIN 325

FIN 425 - Retirement and Estate Planning

Units: 3
When Offered: Spring (odd years)
This course focuses on key components, legal requirements, and restrictions, related to effective retirement and estate planning. Specific topics are types of retirement plans, implementing gifts, trusts and life insurance as means of transferring assets after death, and regulatory and tax considerations within retirement and estate planning.
Grade Type: Letter Grade
Prerequisite(s): FIN 415

FIN 430 - Risk Management

Units: 3
When Offered: Spring (odd years)
This course focuses on identifying risk factors and developing appropriate strategies to mitigate those factors. Specific topics of discussion include credit, market, and operational risk from a corporate perspective and insurance needs analysis for businesses and individuals. Health, disability, long-term care, and life insurances plus annuities will be addressed at the individual level. Overview of the role derivatives play in mitigating risk included.
Grade Type: Letter Grade
Prerequisite(s): FIN 415

FIN 489 - Finance Practicum

Units: 1
When Offered: Fall, Spring
Students will apply finance knowledge to collaboratively complete a designated project for an outside organization or practice portfolio management with the student-managed investment fund.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

FIN 491 - Internship in Finance

Units: 1-3
When Offered: Fall, Spring, Summer
A practiced application of finance principles in a business or campus setting under professional supervision.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Dean

ART 200 - Special Problems in Art

Units: 1-3
When Offered: As offered
Specialized instruction in various media. For the advanced art student capable of exploring a personal direction in his/her creative work.
Repeatable: May be repeated twice for credit with change of topic
Grade Type: Letter Grade

ART 201 - Principles of Design and Color

Units: 3
When Offered: Fall, Spring
An introduction to the principles of two-dimensional design and color theory and their use as tools for effective visual communication.
Grade Type: Letter Grade

ART 202 - Art Appreciation

Units: 3
When Offered: As offered & OPS
The class will discuss art in its broadest context. Students will recognize and appreciate their impulse to create by considering the role of the artist through history, across cultures, and in our own time. The students will develop a working familiarity with art in general so art becomes a natural component of understanding the world.
Grade Type: Letter Grade

ART 203 - Printmaking I

Units: 4
When Offered: As offered
This is a studio course designed to facilitate the creation of original prints using a variety of printmaking techniques. Methods such as monotype, relief (woodcut, linoleum), and intaglio will be explored.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): ART 201, and 204 or 208

ART 204 - Drawing I

Units: 3
When Offered: Fall, Spring, & OPS
This course is one of the foundation courses that develop the perceptual and technical skills for effective drawing. Presents drawing as an essential tool for visual expression. This course is also recommended for general education.
Grade Type: Letter Grade

ART 207 - Watercolor I

Units: 4
When Offered: As offered
This is a studio course designed to introduce the novice art student to the art of watercolor painting. The basic quality of transparency will be explored in tandem representational exercises.
Grade Type: Letter Grade

ART 208 - Studio Drawing I

Units: 4
When Offered: Spring
This course functions as the introductory drawing course for Art majors and minors. In it, the perceptual and technical skills, and the basic media of drawing are introduced and exercised. Drawing as a historic art form is studied and used to develop a sophisticated awareness of its current expressive potential. Credit cannot be earned for ART 204 and 208.
Grade Type: Letter Grade

ART 225 - Sculpture I

Units: 3
When Offered: Fall (odd years)
Basic elements of sculpture. Creating forms in clay, plaster, paper, and multi-media techniques.
Grade Type: Letter Grade
Fee: Additional lab fee

ART 232 - Ceramics I

Units: 3
When Offered: Fall, Spring
Introduction to working with clay, using pinch, coil, slab and wheel; applying glazes, exploring decorating techniques using oxides. History of clay as an art form.
Grade Type: Letter Grade

ART 241 - Global History of Art: Ancient to Medieval

Units: 3
When Offered: Fall (odd years)
This course will introduce you to the major monuments of art and architecture across the globe beginning with prehistoric civilizations and ending with medieval societies. As a survey, we will be covering a wide range of objects, concepts, terms, chronology, and geography.
Grade Type: Letter Grade

ART 242 - Global History of Art: Renaissance to Contemporary

Units: 3
When Offered: Fall (even years)
This course will introduce you to the major monuments of art and architecture across the globe beginning with medieval societies and ending with the modern world. As a survey, we will be covering a wide range of objects, concepts, terms, chronology, and geography.
Grade Type: Letter Grade

ART 283 - Painting I

Units: 4
When Offered: Fall (even years)
Projects introduce traditional painting methods in oils or acrylic paints. Applied studio work, slide lectures, group discussions, and field trips are possible.
Repeatable: May be repeated one time for credit
Grade Type: Letter Grade
Prerequisite(s): ART 201, 204, or 208

ART 300 - Advanced Art

Units: 4
When Offered: Fall (even years)
An essential course for the serious art student. Projects include multimedia community outreach opportunities; such past projects have been local elementary school murals, public sculptures, and collaborations with other departments on campus. More experimental art processes will also be explored in this class such as indigo dye painting, cyanotypes, and image transfer techniques. Emphasis on developing individual student skills and concepts.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): ART 201, 204, or 208

ART 301 - Color, Theory, and Application

Units: 4
When Offered: Spring
This is a combination studio and lecture course that focuses exclusively on issues of color, its aesthetic, symbolic and psychological dimensions, as related to visual expression. This content is applicable to both fine art and design-related fields.
Grade Type: Letter Grade
Prerequisite(s): ART 201 or ARC 122

ART 305 - Figure Drawing I

Units: 4
When Offered: Fall
This course is dedicated to developing facility at rendering the human form in a variety of dry media. The context for this is drawing from live models (clothed), augmented with anatomical drawing exercises. It will also introduce students to the metaphorical and expressive possibilities of the human form.
Grade Type: Letter Grade
Prerequisite(s): ART 204 or 208

ART 314 - Drawing II

Units: 4
When Offered: Spring (even years)
This course is a continuation and expansion of more advanced techniques in drawing. There will be an emphasis on concept building and storytelling through visual imagery. Students will explore new ways to think and approach drawing and the drawing surface.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): ART 204 or 208

ART 323 - New Genre

Units: 4
When Offered: As offered
This course is an introduction and exploration in inter-media art. It will encourage interface and comparison within art and other disciplines.
Grade Type: Letter Grade

ART 325 - Sculpture II

Units: 4
When Offered: Spring (even years)
Sculpture II is an expansion of Sculpture I. There will be an emphasis on scale and new materials such as wood, metal, and found object assemblage. A large scale collaborative object for community outreach also gets explored in this class as well as a history in object making and their various functions.
Grade Type: Letter Grade
Prerequisite(s): ART 225

ART 326 - Contemporary Art Issues

Units: 3
When Offered: As offered
Students will be reading writings by a variety of cultural theorists and historians, site visits, guest speakers, experiments and class discussions. Topics of Fine Art vs. Visual Culture (mass culture, printed matter, etc.) will be major points of exploration and discussion. This course is not a studio class but a class which discusses studio practices and ideas.

Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 345 - Nineteenth Century Art History

Units: 3
When Offered: As offered
A study of the major developments in the visual arts in Europe from David to the first Impressionist show in 1874. Lecture and slides.
Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 346 - History of Modern Painting

Units: 3
When Offered: As offered
A study of the development of modern painting from the French Impressionist movement to the present day in the United States. Lecture and slides.
Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 347 - Contemporary Art History

Units: 3
When Offered: As offered
This course critically examines visual art and design on a global scale from 1945 to the present. We will consider art in its broader framework of "visual culture" that includes performance, installation, print media, video, and propaganda.
Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 350 - Gallery Methods

Units: 3
When Offered: As offered
In this course students will be learn the basics of gallery design and installation. This includes general theories pertaining to the exhibition space and the evolving history of the gallery. In addition, students will gain practical experience installing exhibitions.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 351 - Museum Studies

Units: 3
When Offered: Fall (odd years)
The course will examine the pivotal role that the curators play in museums, and the ways in which the expanding art-world functions today. It will introduce students to aspects of museum work, with an emphasis on the role of the fine arts curator and curatorial theory and how this can integrate with becoming a professional arts administrator.
Repeatable: May be repeated one time for credit
Grade Type: Letter Grade
Prerequisite(s): ART 241, 242, or PHO 140

ART 353 - Ceramics II

Units: 4
When Offered: Spring
Developing clay as an art form; study of properties of clay, glaze and their origin; fusion of materials; stacking and loading kiln, emphasis on wheel throwing.
Grade Type: Letter Grade
Prerequisite(s): ART 232

ART 354 - Printmaking

Units: 4
When Offered: As offered
This is a studio course designed to facilitate the creation of original prints using a variety of advanced printmaking techniques. Methods such as monotype, relief (woodcut, linoleum), and intaglio will be explored.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): ART 201, and either 204 or 208

ART 355 - Contemporary Art Practice

Units: 4
When Offered: Spring (odd years)
This course focuses on contemporary art practice through theoretical analysis and applied studio practice. Through text, discussion, fieldtrip, lecture and making, assignments will address contemporary issues in the arts to expose students to advanced practices of installation, relational aesthetics and new media.
Grade Type: Letter Grade
Prerequisite(s): ART 201, 204, or 208

ART 361 - Art of Latin America

Units: 3
When Offered: As offered
As an introduction to the ancient Americas, this course will focus on seven major cultures in Mesoamerica (Olmec, Teotihuacan, Maya, and Aztec) and Andean South America (Chavín, Moche, and Inca). The course concludes with the arrival of Spanish explorers in the 16th century and a brief analysis of new visual forms produced in response to new social, political, and religious contexts.
Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 371 - Art of Southeast Asia

Units: 3
When Offered: As offered
This course covers the development of art in India and Southeast Asia (i.e. Cambodia, Thailand, Burma (Myanmar), Vietnam, and Indonesia) from pre-historic periods to the present.
Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 381 - Women in the Arts

Units: 3
When Offered: As offered
This course will focus on women both as the subjects and the creators of art. It will be organized chronologically and thematically. This will involve a historical survey of women artists and their artistic contributions, as well as an examination of the religious, mythological and secular images of women in art. Extensive attention will be given to the creation, modification, and persistence of these images throughout history, due to their respective religious, social,

economical, psychological, and intellectual conditions.
Grade Type: Letter Grade
Prerequisite(s): ART 241 or 242

ART 383 - Painting II

Units: 4
When Offered: Spring (odd years)
Projects further develop skills learned in ART 283 - Painting I. Applied studio work, slide lectures, group discussions, and field trips are possible.
Grade Type: Letter Grade
Prerequisite(s): ART 283

ART 385 - Film as Visual Art

Units: 3
When Offered: As offered
Film as Visual Art is a study of masterworks of cinematic art with an emphasis on visual aesthetics and cultural influences. The class will examine selected International cinematic classics, focusing on the film's director, or 'auteur'. The French idea of "camera as style" (pen) will be explored through the film director's use of camera angles, composition, editing, and lighting will be explored and deconstructed, in a manner consistent with traditional forms of visual art. Also under consideration will be the way that these visual elements stand in dynamic and creative tension with the visual culture of their national origin or context. Included in this would be fashion, art, politics, and philosophy.
Grade Type: Letter Grade

ART 387 - Contemporary Visual Arts and Culture

Units: 3
When Offered: OPS
Contemporary Visual Arts and Culture is a study of the causes and effects of the proliferation of new media in 21st century Western Society. This class explores post-modern theory and a tactile approach to the elements that make up the visual world. By exploring advertising, television, film, digital image making, arts and crafts, social media, and both public and private spaces, this course considers the roles of consumers, creators, and critics of visual culture, while engaging with a Christian world view of these cultural practices.
Grade Type: Letter Grade

ART 391 - Art Theory

Units: 3
When Offered: As offered
This is a seminar style class in which readings, critique sessions, writing, discussion, peer review, and the making of original artwork are used to discuss topics in art theory. This writing-centered course provides a forum for the exploration of contemporary art theories and practice. The course also examines the role of artists and artmaking in contemporary culture so students must respond critically to the subject matter at hand, analyze the texts and art works, and understand the methods, practices, and materials utilized in the creation of contemporary art.
Grade Type: Letter Grade

ART 399 - Independent Study

Units: 1-3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.

Repeatable: May be repeated for a maximum of six (6) units of credit
Grade Type: Letter Grade

ART 400 - Problems in Art

Units: 1-4
When Offered: As offered
This course will explore and present selected specialized instruction in various media.
Repeatable: May be repeated for a maximum of eight (8) units with a change in topic
Grade Type: Letter Grade

ART 405 - Figure Drawing II

Units: 4
When Offered: Spring (odd years)
This is a studio course whose aim is to develop increased mastery of the perceptual, technical, and compositional skills involved with figure drawing.
Grade Type: Letter Grade
Prerequisite(s): ART 305

ART 412 - Topics in Art History

Units: 1-4
When Offered: As offered
Projects in Art History topics of current interest not normally covered by established courses. Content variable.
Repeatable: May be repeated twice for credit with a change of topic
Grade Type: Letter Grade

ART 414 - Drawing III

Units: 4
When Offered: As offered
This course is to focus on a continuation of skill development, with an emphasis on individual style and expression. This course is structured to encourage personal voice through idea generation, material investigation, technical refinement and research. Students are encouraged to push the boundaries as they investigate materials, subject matter, process and interpretation related to image making.
Grade Type: Letter Grade
Prerequisite(s): ART 314

ART 415 - Aesthetics and the Classroom

Units: 3
When Offered: As offered
An upper division and graduate level course for the classroom teacher and liberal studies major. Also meets the art history requirement for Visual Arts. Studies assumptions we make about art, investigates our difficulties in understanding art, builds skill in perceiving and communicating about art, and connects lessons learned to practical classroom application.
Grade Type: Letter Grade

ART 430 - Art and the Bible

Units: 3
When Offered: As offered
A study of the dynamic relationship, which has historically existed between the content of Biblical texts and visual art,

with consideration also being given to select examples of music and literature.
Grade Type: Letter Grade

ART 432 - Sculpture III

Units: 4
When Offered: As offered
Advanced problems in sculpture for those who wish to develop individual statements in a sculptural media.
Grade Type: Letter Grade
Prerequisite(s): ART 325

ART 435 - Figure Drawing III

Units: 4
When Offered: As offered
Advanced studies and mastery of the perceptual, technical, and compositional skills involved with figure drawing.
Grade Type: Letter Grade
Prerequisite(s): ART 405

ART 450 - Internship in Visual Arts

Units: 1-3
When Offered: As offered
Under faculty supervision, the student will be assigned to a position, utilizing principles of fine art acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of fine art as a whole.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

ART 453 - Ceramics III

Units: 4
When Offered: Spring
Advanced pottery with emphasis on wheel throwing and design problems. Individual objectives will more or less regulate the type of work done, although specific assignments will be given. Advanced-level performance is expected.
Grade Type: Letter Grade
Prerequisite(s): ART 353

ART 495 - Art Therapy Studio

Units: 4
When Offered: Spring (odd years)
This course will enable students to examine the use of paints, inks, organic art processes, sculpture materials and other traditional and non-traditional art media and their use with particular client populations. Salient features of particular materials and expressive dimensions will be explored. Discussion of computer applications relevant to art therapy will be included. Students will investigate the impact of art processes and materials through ongoing participation in personal art making. By strengthening their connection to the creative process, students will gain an understanding of personal symbolic language, and arts-based learning allowing for the opportunity to integrate intellectual, emotional, artistic, and interpersonal knowledge.
Grade Type: Letter Grade
Prerequisite(s): ART 201 and DES 110
Pre- or Co- Requisite(s): PSY 376

ART 499 - Senior Exhibition

Units: 3
When Offered: Fall, Spring
Senior Exhibition provides unit reward for the work art majors perform en route to the creation and mounting of their required thesis exhibit.
Grade Type: Letter Grade
Prerequisite(s): Senior status and permission of the Department Chair

FRE 115 - Elementary French I

Units: 3
When Offered: Fall
This course introduces students to fundamental skills such as understanding, reading, writing, and speaking the French language, while developing French cultural awareness. To introduce students to these skills, this course will prepare students to use common phrases, a basic vocabulary, and essential grammar. In addition, students will develop their cultural awareness and language skills through a variety of learning activities such as French games and interactive software, French songs, reading and writing short stories, and performing a brief oral topic demonstration.
Grade Type: Letter Grade

FRE 125 - Elementary French II

Units: 3
When Offered: Spring
This course continues the study of the basics of the French language and expands or further develops the student's ability to speak, understand, read, and write elementary French through a variety of activities both in and out of the classroom, homework assignments, workbook exercises, and language lab participation. In addition, the class gives further understanding and appreciation of French civilization/culture.
Grade Type: Letter Grade
Prerequisite(s): FRE 115

FRE 215 - Intermediate French I

Units: 3
When Offered: As offered
Introduces students to more complex linguistic patterns presented in a French/Francophone cultural and comparative context, and includes practice in speaking, listening, reading, and writing through discussion of short texts, written exercises and short compositions, work in multimedia resources, and participation in French cultural events. This is a dynamic, hands-on language course geared toward discussion of topical issues of interest to contemporary French speakers. It includes a review of basic French vocabulary and syntax keyed to readings on cultural topics including globalization, immigration, media, friendship, gender, religion, and human rights. Classes are conducted primarily in French.
Grade Type: Letter Grade
Prerequisite(s): FRE 125

FRE 225 - Intermediate French II

Units: 3
When Offered: As offered
This course develops the advanced linguistic patterns introduced in Intermediate French I and includes more practice in speaking, listening, reading, and composition through discussion and written analysis of French films. The student will become a more proficient French communicator by learning about French culture, history, and politics while studying French cinema in the context of hands-on classroom activities. Knowledge of French vocabulary and grammatical structures taught in the earlier three semesters is assumed. Some grammar study is included, associated primarily with cultural conversations following from the cinema selections and student review projects. Classes are conducted

primarily in French.
Grade Type: Letter Grade
Prerequisite(s): FRE 215

GST 010 - Lifeline

Units: 1
When Offered: As offered
The Lifeline course is an extension of the International Student Orientation at California Baptist University and is required of all Intensive English Program Students. The course is comprised of a semester-long series of small group seminars, activities and discussions designed to address the developmental and transitional needs of new international students at CBU. The course is designed to motivate students to engage in and think about issues and topics that are critical to academic success at the university level and cultural transition into the United States. Topics address the skills and relationships needed for students to succeed academically, socially, emotionally and spiritually.
Grade Type: Pass/Fail

GST 050 - Chapel Convocation

Units: 0
When Offered: Fall, Spring
The California Baptist University community gathers regularly for worship, communication, fellowship, personal development, and spiritual formation. As a community deeply rooted in the Baptist tradition of the Christian faith, it is appropriate to expect broad participation in this experience. (This is a non-academic requirement and does not count toward the number of units required for graduation. A failing grade in Chapel will have a 1 unit negative effect on a student's semester and cumulative grade point average.)
Grade Type: Pass/Fail

GST 060 - Academic Success Seminar

Units: 1
When Offered: Fall
The purpose of this course is to equip students with tools that they need to be successful in their academics at California Baptist University. The course will be comprised of a series of workshops, activities and small group discussions designed to meet the academic needs of students at California Baptist University.
Grade Type: Pass/Fail

GST 061 - Academic Course on Excellence

Units: 1
When Offered: Fall, Spring, & OPS
The purpose of this course is to promote academic success through excellence. Learning theories, concepts, and strategies related to academic excellence and personal success are covered.
Grade Type: Pass/Fail

GST 099 - The Teaching Assistant

Units: 0
When Offered: Fall, Spring, Summer
The class is designed to provide students a deeper understanding of the academic discipline by viewing through the lens of instruction and evaluation of student work. Students will experience this perspective through opportunities to evaluate work, provide supplemental instruction, and participate in other in and out of class activities in support of the course in which the student is serving as a teaching assistant.
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Provost Office

GST 100 - First Year Experience

Units: 1
When Offered: Fall, Spring
The First Year Experience is designed to assist new students with the transition to university life and the California Baptist University community. The course is comprised of a semester-long series of small group seminars, activities, and discussions and is designed to address the developmental and transitional needs of new students at California Baptist University. Topics focus on the issues, skills, and relationships that can help students succeed academically, socially, emotionally, and spiritually. Based on years of tradition, but sensitive to the ever-changing needs of university students, this course provides a well-rounded introduction to the California Baptist University experience.
Grade Type: Pass/Fail

GST 101 - Essentials for Online and Professional Studies

Units: 0
When Offered: OPS
The course is designed to prepare students for a successful transition to college coursework, including online studies. Students are introduced to the resources California Baptist University has in place to ensure the success of its student body including an introduction to the Blackboard learning management system.
Grade Type: Pass/Fail

GST 199 - Portfolio Seminar

Units: 1
When Offered: OPS
The goal of the portfolio workshop is to help the student gather the material necessary for petitioning for prior learning credit and to assist in the presentation of the material. The prior learning portfolio is intended to be a thorough compilation of the student's prior learning. With guidance from the faculty, the student will develop a portfolio documenting college level learning which has been obtained outside of the traditional college classroom setting through work related training, professional experiences, and community involvement. Portfolio credit is awarded for learning that has taken place-not for experience. Therefore in addition to documenting experience, students are expected to articulate and demonstrate appropriate theory and terminology in their portfolio. (Portfolio credit can only be earned toward general elective credits and cannot be earned in a student's major field of study.)
Grade Type: Pass/Fail

GST 200 - Career Readiness

Units: 1
When Offered: Fall, Spring, Summer
This course is designed to help students align their academic studies with professional development so that they will be equipped to present themselves as the most preferred candidate when entering into their chosen job field. The full process of career readiness will be discussed and evaluated from student, alumni, and employer perspectives. Subject matter will consist of how to choose a major/career, preparing job application materials, interview skills, strategic job searching, etc.
Grade Type: Pass/Fail

GDM 110 - Fundamental Design

Units: 3
When Offered: Fall, Spring, & OPS
This course explores the tools and implementations of Adobe Illustrator through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is a working knowledge of Illustrator for the student.
Grade Type: Letter Grade
Fee: Additional course fee (TRAD only)

GDM 120 - Fundamental Typography

Units: 3
When Offered: Fall, Spring, & OPS
This course explores the tools and implementations of Adobe InDesign through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is a working knowledge of InDesign for the student and for the student to be able to identify key typography concepts.
Grade Type: Letter Grade
Fee: Additional course fee (TRAD only)

GDM 130 - Fundamental Image

Units: 3
When Offered: Fall, Spring, & OPS
This course explores the tools and implementations of Adobe Photoshop through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is a working knowledge of Photoshop for the student.
Grade Type: Letter Grade
Fee: Additional course fee (TRAD only)

GDM 140 - Fundamental Web

Units: 3
When Offered: OPS
This course introduces students to the primary languages of web design, HTML and CSS. The course is designed to provide students with a foundational knowledge in the way that web pages are designed and coded. Tools and techniques needed to design and create web pages will be explored.
Grade Type: Letter Grade

GDM 150 - Fundamental User Interface and User Experience Design

Units: 3
When Offered: As offered
This course serves as an introduction to a variety of visual, navigational and structural approaches in the user experience (UX) and interface (UI) building process. The primary goal is for students to better understand how to design for various digital and environmental user experiences. Topics that will be covered include research, navigation systems, visual hierarchy, prototyping, testing and best practices. A strong emphasis is placed on conceptual development, structure, interactivity, and design aesthetics that will result in effective physical and virtual user experience solutions.
Grade Type: Letter Grade

GDM 200 - Special Topics in Graphic Design

Units: 3
When Offered: As offered
This course focuses on different topics in the field of graphic design each time it is offered. Designed to reflect both the rapidly changing culture and technologically progress of the field.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

GDM 215 - Principles: Introduction to Graphic Design

Units: 3
When Offered: Fall, Spring
This foundational course provides a broad introduction to the field of visual communication by exploring 2D design

concepts, processes, techniques, and production methods. Students will gain experience in the ideation, research, execution, and presentation of design related projects.
Grade Type: Letter Grade
Fee: Additional course fee

GDM 225 - Principles: Letterforms and Structure

Units: 3
When Offered: Fall, Spring
Students will learn the fundamentals of typesetting and typographic layout by exploring the history, anatomy, vocabulary, design, and function of letterforms and the role it plays in the visualization of language.
Grade Type: Letter Grade
Fee: Additional course fee

GDM 235 - Principles: Image Visualization

Units: 3
When Offered: Fall, Spring
This course explores the use of the image as a tool for non-verbal communication and story-telling. Students will learn the fundamentals of image based design through compositing and editing techniques and processes.
Grade Type: Letter Grade
Fee: Additional course fee

GDM 240 - Principles: Innovations in Design

Units: 3
When Offered: Fall, Spring
This course surveys the conceptual underpinnings of the major movements in graphic design and digital art. Students will examine visual communication from the earliest human expressions of cave paintings to contemporary design movements to the software breakthroughs of the Digital Revolution. Students will interpret selected concepts and movements and then create their own designs using a variety of analytic methodologies.
Grade Type: Letter Grade

GDM 305 - History of Graphic Design

Units: 3
When Offered: OPS
A study of the causes and effects of critical design movements. This course explores the political and social environments that shaped the creation and evolution of graphic design. This course will give students insight into different movements, such as the Medieval Era, Graphic Renaissance, Industrial Revolution, Art Nouveau, Modernism, Postmodernism, and the Digital Revolution. Students will also evaluate how the history of graphic design influences current design philosophies and strategies.
Grade Type: Letter Grade

GDM 310 - Intermediate Design

Units: 3
When Offered: Fall, Spring, & OPS
This course is an intermediate design course in which project work is used to study work flow, pre-press techniques and practices, idea generation, and other concepts that arise from the process of creativity.
Grade Type: Letter Grade
Prerequisite(s): GDM 110 and 130

GDM 315 - Practice: Designing Brand Identity

Units: 3
When Offered: Fall, Spring
This course will explore how to develop, conceptualize and craft effective design solutions in the form of a visual identity system. Students will design a variety of branding elements and strategy guidelines to visually communicate a core message across an array of products, services, and environments.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): GDM 215

GDM 320 - Intermediate Typography

Units: 3
When Offered: Fall, Spring, & OPS
This course is an intermediate typography course in which more complex typography concepts, best practice type generation and project work challenge the student.
Grade Type: Letter Grade
Prerequisite(s): GDM 110, 120, and 130

GDM 321 - The Art and Design of Professional Presentations

Units: 3
When Offered: OPS
This course introduces students to the knowledge and skills necessary to develop professional interactive multimedia productions. Classroom activities include how to identify the design and communication issues from pre through post production of an interactive presentation. In this multimedia design and production course, students integrate research, writing, creative visual layout, and interface design to develop high impact professional presentations. Additionally, students will learn how to define and identify project goals, purpose, audience, timeline milestones, budget constraints and other multimedia project parameters.
Grade Type: Letter Grade

GDM 325 - Practice: Typographic Form and Space

Units: 3
When Offered: Fall, Spring
The goal of this course is to refine the student's skills and understanding in using typography as an informative medium. Students will analyze the semiotic function of text including its relationship with content and image. Students will work with visible language in a variety of media and dimension, exploring the possibilities of conceptually-based typographic solutions.
Grade Type: Letter Grade
Prerequisite(s): GDM 225

GDM 330 - Intermediate Image

Units: 3
When Offered: Fall, Spring, & OPS
This course is an intermediate image course in which more complex photography and photoshop techniques will be taught. Students will learn how to manipulate photography using photoshop to create complex ideas and messages.
Grade Type: Letter Grade
Prerequisite(s): GDM 130

GDM 335 - Conceptual Image Making

Units: 3
When Offered: Fall, Spring
This course will explore how to critically interpret and create meaning in context. Students will design solutions to

problems across a variety of media by visualizing conceptual ideas through advanced image-making processes.
Grade Type: Letter Grade
Prerequisite(s): GDM 235

GDM 340 - Intermediate Web

Units: 3
When Offered: OPS
This course expands on students accrued HTML and CSS knowledge. Principles of content strategy will be integrated with visual design to create compelling web experiences. Popular as well as up and coming CMS solutions such as WordPress, Ghost, and others will also be explored.
Grade Type: Letter Grade
Prerequisite(s): GDM 140

GDM 341 - Video Fundamentals

Units: 3
When Offered: As offered
This course explores the tools and implementations of Adobe Premiere Pro through assigned projects and exercises. Techniques will be explored and explained. Best practice work-flows will be taught. The goal of this course is for the student to have a working knowledge of the Adobe Premiere Pro editing software.
Grade Type: Letter Grade

GDM 342 - Motion Design I

Units: 3
When Offered: Fall (odd years)
This course teaches students the fundamental skills and processes used in the motion design industry. Students will learn about storyboards, style frames, sound development, and rendering and they will use industry-standard time-based software such as Adobe After Effects to learn 2D animation principles.
Grade Type: Letter Grade
Prerequisite(s): GDM 315 or 325

GDM 343 - Motion Design II

Units: 3
When Offered: Spring (even years)
This upper-level course teaches advanced motion theory, as well as pipeline workflow concepts, strategies and common industry trends and practices. The emphasis is on showing the full motion design workflow in a studio-like environment from concept to final output.
Grade Type: Letter Grade
Prerequisite(s): GDM 342

GDM 351 - 3D Concept Design I

Units: 3
When Offered: Fall
This course builds a foundation for advanced 3D environmental modeling, photorealistic rendering, stylistic shading, and effects processes. Students will build upon fundamental techniques to create professional quality imagery and motion with industry standard software such as Cinema 4D and Element 3D. Working is a typical design studio pipeline, students will work with NURBS modeling and mesh editing for hard surface and organic objects; texture mapping, special effects including effectors, dynamics, and multiple emitters; optimization techniques; and a variety of compositing methods to create both artistic works and commercial products.
Grade Type: Letter Grade
Prerequisite(s): EGR 121, FLP 170, or GDM 215

GDM 352 - Visual Effects Concept Design

Units: 3
When Offered: Fall
This course teaches students the primary skills and processes used in the visual effects (VFX) industry. Students will learn basic compositing and how to integrate computer graphics and 3D components with live action in a methodology that simulates standard VFX production pipelines.
Grade Type: Letter Grade
Prerequisite(s): EGR 121, FLP 170, or GDM 215

GDM 353 - 3D Concept Design II

Units: 3
When Offered: Spring (odd years)
This course focuses on advanced 3D concept design, compositing, product design, environmental modeling, photorealistic rendering, stylistic shading, and effects processes. Students will learn advanced techniques for 3D compositing into live action videography that includes a variety of methodologies to create both artistic works and commercial products with industry standard software such as Cinema 4D, After Effects, and Premiere.
Grade Type: Letter Grade
Prerequisite(s): GDM 351

GDM 354 - Mixed Reality Concept Design

Units: 3
When Offered: Spring
With the ubiquity of mobile devices and the mainstream adoption of wearables, there is an additive digital layer of structured data viewable in mixed reality environments such as augmented reality (AR) and virtual reality (VR). This course provides students with an overview of the history and evolution of these technologies, their convergence, and how to build basic mixed reality applications for such domains as the arts, design visualization, architecture, fashion, and other artistic and commercial use cases. Students will use industry standard programs such as Unity 3D and Snapchat Lens.
Grade Type: Letter Grade
Prerequisite(s): GDM 351

GDM 371 - User Interface and User Experience Design I

Units: 3
When Offered: Spring
This course takes a deep dive into designing UI / UX for mobile and emerging technologies and will critically examine conceptual innovations in the field. On a practical level, students will work with information architecture, prototyping and wireframing tools, usability assessment, and best practices for design communication. Finally, students will work with the major principles and professional practice of UI/UX design through weekly exercises, class discussions, presentations, and functional projects.
Grade Type: Letter Grade
Prerequisite(s): GDM 215, 225, and 235

GDM 400 - Special Topics in Graphic Design

Units: 3
When Offered: As offered
This course focuses on different topics in the field of graphic design each time it is offered. Designed to reflect both the rapidly changing culture and technologically progress of the field.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

GDM 410 - Advanced Design

Units: 3
When Offered: Fall, Spring, & OPS
This course is an advanced design course in which project work is used to build a professional portfolio for employment or advanced studies. Complex design issues and problem solving challenge the student throughout the creative process.
Repeatable: May be repeated one (1) time for credit
Grade Type: Letter Grade
Prerequisite(s): GDM 310

GDM 415 - Studio: Visual Systems Design

Units: 3
When Offered: Fall, Spring
This studio-based course is expected to be the culmination and synthesis of visualizing complex, integrated design systems from the skills acquired in prior courses within the major. Through key principles in visual systems design, each student will contextualize and develop strategies for managing design solutions across a variety of communication outlets.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): GDM 315, 325, and 335

GDM 420 - Advanced Typography

Units: 3
When Offered: Fall & OPS
This course is an advanced typography course in which complex real-world typography concepts are now explored to build projects for a professional portfolio of work for employment or advanced studies.
Grade Type: Letter Grade
Prerequisite(s): GDM 320

GDM 425 - Studio: Typographic Hierarchies

Units: 3
When Offered: Fall
This experiential studio course is expected to be the culmination and synthesis of the typographical knowledge and skills acquired from the successful completion of prior courses within the major. By exploring and discussing historical and contemporary theory related to typography and design, each student will contextualize and apply critical thinking to their developing practice and conceptual interests.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): GDM 315, 325, and 335

GDM 430 - Advanced Image

Units: 3
When Offered: Spring & OPS
This course is an advanced image course in which professional, complex image generation is explored and expert techniques in color correction, masking and compositing are implemented. Professional portfolio projects are built to prepare students for employment or advanced studies.
Grade Type: Letter Grade
Prerequisite(s): GDM 330

GDM 435 - Studio: Image and Art Direction

Units: 3
When Offered: Fall
This experiential studio course is expected to be the culmination and synthesis of the creative image-making knowledge and skills acquired from the successful completion of prior courses within the major. Studio emphasis is placed on strategic and conceptual art direction for products and subjects.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): GDM 315, 325, and 335

GDM 440 - Advanced Web

Units: 3
When Offered: OPS
This advanced course exposes students to real world web design problems through projects and case studies. Client side scripting with JavaScript will be introduced. Web standards and best practices will be studied in depth, as well as project workflow.
Repeatable: May be repeated one (1) time for credit
Grade Type: Letter Grade
Prerequisite(s): GDM 340

GDM 455 - Studio: Visual Experience Design

Units: 3
When Offered: Fall
This experiential learning course teaches students to develop a disciplined studio digital arts and design practice. Advanced Design Studio explores leading-edge ideas and design methodologies and directs each student to develop specific concepts, processes, and techniques in relation to their developing practice and conceptual interests. Students will develop an individualized area of research, and a directed, productive approach to studio practice. Finally this course will introduce and discuss professional practices in digital arts and design in order to prepare students for careers in design, the arts, exhibitions, graduate study, professional practices, self-promotion, or various other creative pursuits.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): GDM 315, 325, 335, and either 343 or 353

GDM 495 - Design Capstone

Units: 3
When Offered: Spring
This course prepares students for their capstone show by bringing together the skills and processes students have developed here at California Baptist University. Students begin by identifying an area of research and discussing its relationship to graphic design and visual experience while being challenged to expand their abilities of creating visual form with integrity and meaning. This course is viewed by the program as the pinnacle event in their academic journey.
Grade Type: Letter Grade
Prerequisite(s): Senior status and permission of the Dean

GDM 499 - Senior Project

Units: 3
When Offered: Fall, Spring, & OPS
This course is designed as a capstone showcase of the student's accumulated body of work while in the program. The Graphic Design Senior Show will consist of 10 portfolio pieces from the student's portfolio. This is an effort to keep the student on task and focused on the portfolio.
Grade Type: Letter Grade
Prerequisite(s): Senior status and permission of the Department Chair

GRK 213 - Introduction to Koiné Greek I

Units: 3
When Offered: Fall
An introduction to Koiné Greek emphasizing basic grammar and vocabulary preparatory for translation of the Greek New Testament.
Grade Type: Letter Grade

GRK 223 - Introduction to Koiné Greek II

Units: 3
When Offered: Spring
Continuation of GRK 213 with beginning translation from the First Epistle of John.
Grade Type: Letter Grade
Prerequisite(s): GRK 213

GRK 313 - Intermediate Greek

Units: 3
When Offered: As offered
A "literary laboratory" in which to observe the function of Greek syntax through the translation and exegetical study of specific New Testament materials.
Grade Type: Letter Grade
Prerequisite(s): GRK 223

GRK 323 - Intermediate Greek

Units: 3
When Offered: As offered
A "literary laboratory" in which to observe the function of Greek syntax through the translation and exegetical study of specific New Testament materials.
Grade Type: Letter Grade
Prerequisite(s): GRK 223

GRK 413 - Greek Exegesis

Units: 3
When Offered: As offered
A careful exegetical study of a Greek text of specific New Testament text(s) presenting the opportunity to further develop translational, analytical, and interpretive skills.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): GRK 313 and 323

HSC 100 - Introduction to the Health Science Professions

Units: 1
When Offered: Fall, Spring
This course is designed to introduce students to the basic skills necessary for academic success in the health science majors, to review the numerous career options in the health, exercise, and allied health professions, and to explore the student's calling and vocation.
Grade Type: Letter Grade

HSC 101 - Introduction to Public Health

Units: 3
When Offered: As offered & OPS
This course provides an introduction to public health concepts and practice by examining the philosophy, purpose, history, organization, functions, tools and activities and results of public health practice. Case studies and a variety of practice-related exercises serve as a basis for student's participation in real world public health problem-solving simulations.
Grade Type: Letter Grade

HSC 104 - Survey of U.S. Health Care Delivery

Units: 3
When Offered: As offered & OPS
The course is designed to provide the students with a basic foundation in the ways in which healthcare is delivered to patients in the United States. The course will explore the matrix of insurance companies, financing, patient rights, and physician liabilities as it creates a contemporary illustration of how environmental factors influence and shape our current system. The primary foci will be the delivery, financing, and regulation of healthcare in the US.
Grade Type: Letter Grade

HSC 200 - Special Topics in Health Science

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of health science. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

HSC 210 - Ethics in Health Care

Units: 3
When Offered: As offered & OPS
This course provides grounding in ethical theories and principles as they relate to and impact current healthcare issues and policies. Students are introduced to a variety of frameworks for ethical decision-making and policy analysis. Current trends in the contemporary healthcare arena are analyzed through the use of case studies. Recent healthcare issues are presented including euthanasia, fertility interventions, mental illness, genetic engineering, multicultural issues, economics, public policy, professional ethical codes, and other relevant topics.
Grade Type: Letter Grade

HSC 300 - Health Communication

Units: 3
When Offered: As offered
The purpose of this course is to focus on the use of communication strategies to inform and influence individual and community decisions regarding health. The seminar will focus on the following contexts of health: the multidimensional nature of health communication; understanding empirical research in health communication; behavioral theories in health communication; rhetorical theories in health communication; legal and ethical concerns in health communication; the communication of risk and uncertainty; and the design of health campaigns. Students will be required (a) to research and prepare a health communication strategy for use in a specific context and (b) to design an accompanying print or hypertext document to be used in that context.
Grade Type: Letter Grade

HSC 301 - Principles of Health Education

Units: 3
When Offered: As offered & OPS
This is an introductory course that overviews principles of health education. Health education is an academic area that

fosters the acquisition of skills and competencies to assist individuals, families, and communities to make informed decisions related to health. This course will introduce students to Certified Health Education Specialist (CHES) credential that is nationally recognized by National Commission on Health Education Credentialing, and will be a fundamental course for students who are preparing for the CHES exam.
Grade Type: Letter Grade

HSC 305 - Epidemiology

Units: 3
When Offered: Fall & OPS
Principles and methods used to investigate the distribution, determinants, and prevention strategies for disease in human populations. Major topics include: disease classification, measures of disease frequency and relative effect, comparisons and contrasts of analytic study designs, methods used to isolate effects, statistical significance testing, interpretation of results, and screening for latent disease.
Grade Type: Letter Grade

HSC 306 - Pathophysiology for Public Health

Units: 3
When Offered: As offered & OPS
This course introduces students to the basic pathogenesis of disease in human beings. The course will describe the most common disorders as they relate to each major body system while exploring the etiology, risk factors, diagnostic and prognostic procedures of each disease. This course also studies the pathology and general health management of disease and injuries across the human lifespan.
Grade Type: Letter Grade

HSC 312 - Principles of Environmental and Occupational Health

Units: 3
When Offered: As offered & OPS
In-depth discussion and analysis of the physical, chemical and biological hazards found in the environment and health risks associated with workplace and community exposure to them. Risks to special populations and mechanisms of reducing or controlling these risks are discussed.
Grade Type: Letter Grade

HSC 316 - Public Health Promotion, Disease Prevention and Intervention

Units: 3
When Offered: As offered & OPS
This course will discuss approaches to health promotion and disease prevention intervention in different settings, using varied strategies, and for different target groups. It is intended to be practical in nature focusing on the specifics of intervention development and delivery and how these might vary across settings, behaviors and strategies.
Grade Type: Letter Grade
Prerequisite(s): HSC 306

HSC 320 - Public Health Nutrition and Physical Activity

Units: 3
When Offered: OPS
This course introduces concepts of nutrition as they relate to nutritional needs, practices and problems throughout the life cycle, nutritional counseling and education of individuals/groups toward health promotion and disease prevention. This course also introduces knowledge, skills and experiences necessary to lead participants in gaining the skills, knowledge, attitudes and behaviors required to lead physically active lifestyles.
Grade Type: Letter Grade

HSC 380 - Health Science Seminar

Units: 1
When Offered: As offered
This course will introduce and reinforce the skills necessary to perform research within the health sciences including discussions of the scientific method, literature research, reading scientific journal articles, analyzing scientific data, reporting research findings in both written and oral formats, critiquing original research and science ethics. It will be required to present a research proposal and or locate and prepare all necessary documents for entering an internship, fieldwork, or research opportunity.
Grade Type: Letter Grade
Prerequisite(s): Health Science major

HSC 400 - Special Topics in Health Science

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of health science. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

HSC 406 - Food Safety and Consumer Protection

Units: 3
When Offered: Fall
Principles and techniques of quality assurance for food preparation and prevention of food-borne diseases. Sanitary and safe preparation, storage, transportation, and handling of foodstuffs and products both commercially and residentially. Criteria and practical methodology of inspection and surveillance techniques, facilities design, and plan checking. Performance criteria for food handlers, with application to environmental techniques in education, enforcement, and consultation.
Grade Type: Letter Grade

HSC 410 - Health Behavior Change

Units: 3
When Offered: As offered
This course addresses the exploration and application of education, psychosocial, and spiritual components of health behaviors. Behavior change theory, principles, predictive models, and their application to health behavior change programs and interventions will be investigated.
Grade Type: Letter Grade

HSC 412 - Health and Wellness Coaching

Units: 3
When Offered: Spring
This course is designed to provide a foundational knowledge and skills of health and wellness coaching. An effective health and wellness coach must understand key elements of effective interviewing skills that are core building blocks of optimizing client's motivations for optimal health. The topics discussed include coaching structure, coaching process, health and wellness, and ethics. At the completion of this course, the student will be eligible to take a national certification exam titled 'Health/Wellness Coach' accredited by International Consortium for Health and Wellness Coaching (ICHWC).
Grade Type: Letter Grade
Prerequisite(s): HSC 410

HSC 413 - Program Planning and Implementation

Units: 3
When Offered: Fall
This course examines models and processes for the identification of population-based public health needs, the selection of evidence-based approaches, and development of a plan for the successful implementation of public health initiatives. Students will critically examine and discuss models and processes to systematically plan and implement public health programs and interventions. Students will learn and build competencies in the areas of evidenced-base health promotion practice, conducting needs assessments, developing a logic model, developing a grant proposal, budgeting, and monitoring program implementation.
Grade Type: Letter Grade

HSC 415 - Water and Air Quality Inspection and Management

Units: 3
When Offered: Fall
This course introduces students to sources and characteristics of air and water pollutants and their effects on humans and public health. Methods used in sampling of pollutants, controls, and abatement of air and water quality standards and violations will also be discussed. Principles and processes involved in providing safe and adequate water supplies quantity and quality assurance, source and system design, and public health inspection parameters, and public health laws and policies will be included. Procedures and programs for the protection of air and water sources from contamination including waste management, hazardous materials disposal, and toxicology will also be covered.
Grade Type: Letter Grade
Prerequisite(s): HSC 312

HSC 418 - Program Evaluation

Units: 3
When Offered: Spring
This course is an introductory course in program evaluation. In this course, we will examine and discuss models and processes to systematically evaluate public health programs and interventions. We will be reviewing terms, principles, and methods related to: using program evaluation as the determination of merit, worth, or significance, differences and connections between: evaluation and description, explanation, prediction, recommendations, and evaluation utilization. This course will also provide a review of various research methods, statistics, and data analysis.
Grade Type: Letter Grade

HSC 420 - Health Care Policy

Units: 3
When Offered: As offered & OPS
The purpose of this course is to provide students with an overview of the healthcare policy process in the United States. Students will gain an understanding of how the healthcare system works and how healthcare policy has been made in the U.S. Review and analysis of current various proposals for healthcare reform will be conducted.
Grade Type: Letter Grade
Prerequisite(s): HSC 104

HSC 421 - Methods in Health Education

Units: 3
When Offered: Spring
This course reviews various approaches to health promotion and disease prevention intervention strategies. The course is intended to be practical in nature, focusing on the logistics of intervention development and delivery and how these might vary across settings, behaviors, strategies/theories, and populations. Curriculum planning, methods of instruction, unit plan development, media use in health education, delivery and effectiveness will be discussed and practiced through the semester.
Grade Type: Letter Grade

HSC 450 - Curriculum Design in Health Education

Units: 3
When Offered: OPS
This course introduces the theories and skills necessary to develop health education curricula based on analysis of individual, community, and societal needs and interests.
Grade Type: Letter Grade
Prerequisite(s): HSC 301 and Junior status

HSC 460 - Planning and Evaluating Health Education Programs

Units: 3
When Offered: As offered & OPS
This course addresses the use of planning models and diagnostic techniques to design, deliver, and evaluate health education programs in a variety of settings: school, work site, medical care, and community groups. It will also study the steps in the educational process: conducting behavioral and educational diagnoses; setting behavioral and educational objectives; selecting appropriate intervention strategies; integration and application of behavioral and education theories to interventions; instructional delivery and design skills; and evaluation of education results.
Grade Type: Letter Grade

HSC 480 - Research Methods

Units: 3
When Offered: As offered & OPS
This course provides an introduction to clinical research design with statistical analysis. The emphasis will be on the student designing her or his practical research project by the end of the semester. Content would include developing the research question, choosing the (1) study design, (2) study subjects, (3) measurements (independent and dependent variables), data management (including designing the data collection form) and statistical analysis (including sample size estimation and power), ethical issues, implementation, and publication of results.
Grade Type: Letter Grade
Prerequisite(s): STA 144, and Junior or Senior status

HSC 485 - Environmental Sampling and Analysis

Units: 3
When Offered: Spring
This course is designed to introduce the student to the principles and methods of Environmental sampling and analysis. It provides an introduction to the laboratory methods for the measurements and evaluation of environmental exposures and their impacts on health. The course allows students to begin being exposed to techniques pertinent to their future occupation. The topics covered are general laboratory practices, water quality, food quality, industrial hygiene, and radiation. Eight hours of lecture and lab per week for one quarter.
Grade Type: Letter Grade
Prerequisite(s): HSC 312

HSC 491 - Internship in Health Science

Units: 1-4
When Offered: As offered
Under the advisement of a faculty member and supervision of heath care professional, the student will work or otherwise actively participate in a community-based healthcare setting. Variable units may be earned in any one semester.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Health Science major, and Junior or Senior status

HSC 495 - Practicum

Units: 3
When Offered: Fall, Spring, Summer
This course provides a supervised internship in a community-based setting. The student will work in their chosen field of study, under the supervision of a professional, and will periodically report their practicum experience to the instructor to reflect their field experience. The course entails two major components: (1) internship experience, (2) review and assessment of the student's attainment of professional competencies. A total of 90 hours of on-site work, observation, or participation is required.
Grade Type: Pass/Fail
Fee: Additional clinical practicum fee
Prerequisite(s): Senior status and permission of the Department Chair

HSC 499 - Health Science Capstone

Units: 3
When Offered: As offered
The course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they have gained by participating in a research or internship opportunity prior to this course. Students in the capstone will prepare a presentation (both oral and written) that will focus on that experience.
Grade Type: Letter Grade
Prerequisite(s): Senior status and permission of the Department Chair
Pre- or Co- Requisite(s): HSC 480

HCA 330 - Health Information Systems

Units: 3
When Offered: Fall & OPS
This course provides an overview of various health information systems, with emphasis on case studies of systems utilized in areas such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Fundamentals of proposing, reporting, and refereeing evaluation studies are covered. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed.
Grade Type: Letter Grade

HCA 360 - Finance and Reimbursement in Healthcare

Units: 3
When Offered: Spring & OPS
This course deals with the financing and reimbursement functions associated with medical care in the United States. Primary attention is directed towards the economic purpose, structure, operation, and performance of the private health insurance industry. Emphasis is placed on the business of providing health insurance products such as underwriting, medical claims cost control, pricing, and marketing. In that context, managed care techniques, benefit package designs including consumer directed health plans, and cost sharing mechanisms are discussed. Attention is also paid to the Medicare and Medicaid programs, the impact of government regulations on the operation and performance of the private health insurance industry, and healthcare reform.
Grade Type: Letter Grade

HCA 405 - Quality Management in Healthcare

Units: 3
When Offered: OPS
This course presents a study of the foundational components of healthcare quality management with a strong emphasis on creating a culture of continuous improvement through performance evaluation and measurement, patient safety, and quality and safety reliability. The development of a hospitable environment through patient and employee engagement

is examined.
Grade Type: Letter Grade

HCA 410 - Quality Improvement in Healthcare

Units: 3
When Offered: Fall
Student will explore the current forces driving the push toward quality outcomes and accountability at all levels and settings of healthcare, while focusing on the philosophy of continuous improvement through teamwork and statistical thinking. Students will use structural tools for analysis, decision making and performance measurement.
Grade Type: Letter Grade
Prerequisite(s): STA 144

HCA 450 - Healthcare Legal Issues and Ethics

Units: 3
When Offered: Spring
Students explore and analyze current ethical issues such as biomedical research, insurance statutes, and demand management. Students survey the extensive legal foundations of healthcare, and apply current case law to contemporary situations. Topics include legal aspects of legislation, patient rights, data security, professional liability, and labor relations.
Grade Type: Letter Grade

HCA 490 - Current Issues in Healthcare Administration

Units: 3
When Offered: Fall
The purpose of this course is to expose students to current and relevant administrative issues prevalent within the healthcare sector. In addition, this course will help students develop the knowledge and skills to work with industry professionals to design a project scope and memorandum of understanding with a healthcare company to address a current issue.
Grade Type: Letter Grade
Prerequisite(s): STA 144

HCA 499 - Healthcare Administration Capstone

Units: 3
When Offered: Spring
This course is designed to be a culminating exercise for students to reflect upon, evaluate, and assimilate knowledge and experience they gained by participating in an action research project with a local health care provider. This course continues the student's development in a research and reflective experience that utilizes the memorandum of understanding developed in HCA 490. At the completion of this course, students will prepare a presentation (both oral and written) that focuses on that experience.
Grade Type: Letter Grade

HEB 213 - Biblical Hebrew I

Units: 3
When Offered: Fall
A study of the fundamentals of biblical Hebrew, including pronunciation, vocabulary, verbs, nouns, and parts of speech as well as elements of Hebrew syntax.
Grade Type: Letter Grade

HEB 223 - Biblical Hebrew II

Units: 3
When Offered: Spring
An analysis of biblical Hebrew with attention to appropriate portions from the Old Testament Scriptures and to the introduction and utilization of the Hebrew lexicon.
Grade Type: Letter Grade
Prerequisite(s): HEB 213

HEB 313 - Intermediate Biblical Hebrew I

Units: 3
When Offered: As offered
Continuing study of the writing, grammar, vocabulary, syntax, and literature of Biblical Hebrew II.
Grade Type: Letter Grade
Prerequisite(s): HEB 223

HEB 323 - Intermediate Biblical Hebrew II

Units: 3
When Offered: As offered
Continuing study of the writing, grammar, vocabulary, syntax, and literature of Intermediate Biblical Hebrew I.
Grade Type: Letter Grade
Prerequisite(s): HEB 313

HEB 400 - Advanced Hebrew

Units: 3
When Offered: As offered
A careful exegesis study of a specific section of the Hebrew Bible, presenting the opportunity to further develop translational, analytical, and interpretive skills.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): HEB 323

HIS 201 - Special Topics in U.S. History

Units: 3
When Offered: As offered
Concentrates on a different topic of U.S. History each time offered. Student involvement in selection of topics is encouraged.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

HIS 202 - Special Topics in Non-U.S. History

Units: 3
When Offered: As offered
Concentrates on a different topic in Non-U.S. History each time offered. Student involvement in selection of topics is encouraged.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

HIS 213 - History of the United States to Reconstruction

Units: 3
When Offered: Fall, Spring, & OPS

A general survey of the social, political, economic, cultural, and religious developments from 1492 through Reconstruction.
Grade Type: Letter Grade

HIS 215 - World History Since 1500

Units: 3
When Offered: Spring
This is a survey of world history from ca. 1500 to the present. The course examines people groups and countries of the early modern and modern eras in Africa, Asia, Europe, Latin America, and the Middle East. Particular attention is given to the political, economic, religious, and cultural interactions between peoples from these regions, with an emphasis on the development of globalization and its impact.
Grade Type: Letter Grade

HIS 223 - History of the United States since the Civil War

Units: 3
When Offered: Fall, Spring, & OPS
A continuation of HIS 213 - History of the United States to Reconstruction. May be taken before HIS 213.
Grade Type: Letter Grade

HIS 225 - World History to 1500

Units: 3
When Offered: Fall
This is a survey of world history from the earliest human societies to the beginnings of globalization in ca. 1500. The course examines the development of, and interactions between, peoples, states, civilizations and empires in Asia, Africa, Europe and the Middle East. Particular attention is given to the political, economic, religious, and cultural interactions between peoples from these regions.
Grade Type: Letter Grade

HIS 305 - History of China

Units: 3
When Offered: Fall (odd years)
The course acquaints and familiarizes students with historical inquiry centered upon the entire breadth of Chinese civilization. Students will engage in a study of the dynastic period to the Republican era with the advent of communism in China, focusing upon political, intellectual, economics and social factors.
Grade Type: Letter Grade

HIS 311 - Minorities in America

Units: 3
When Offered: Fall, Spring, & OPS
The role of minorities in the development of America. Principal areas of focus are immigration and the immigrant experience and the ethnic experiences of Blacks, Indians, and Hispanics.
Grade Type: Letter Grade

HIS 315 - Latin American History

Units: 3
When Offered: Fall & OPS
This course is a survey of Latin American history from the Spanish discovery of the Americas through the Cold War in the twentieth century. The course focuses on the impact of Spanish and Portuguese colonialism, the wars of Latin American Independence, the development of Latin American republics, and the impact of US intervention in the

region.
Grade Type: Letter Grade

HIS 325 - Non-Western Culture and History

Units: 3
When Offered: Spring & OPS
The course consists of a historical survey exploring primarily the cultural and intellectual features of specifically non-Western cultures, with emphasis given to East Asia, South Asia, and the Middle East, additionally covering Africa, and the pre-Columbian Americas.
Grade Type: Letter Grade

HIS 333 - Nineteenth Century Europe

Units: 3
When Offered: Fall (even years)
This course is a survey of European history from the French Revolution to World War I. The course focuses on the following themes of the long nineteenth century: nationalism and nation-building, industrialization and social change, Marxism and liberalization, colonialism and imperialism. Of particular importance is the growing tension between Christianity and secularization.
Grade Type: Letter Grade

HIS 343 - Twentieth Century Europe

Units: 3
When Offered: Spring (odd years)
This course is a survey of European History from the outbreak of World War I to the end of the Cold War. Special attention will be given to the study of conditions that produced Fascism, Nazism, and Communism, as well as to the factors that brought about World War II and shaped the development of the post-war world.
Grade Type: Letter Grade

HIS 353 - Renaissance and Reformation Europe

Units: 3
When Offered: Fall (odd years)
This course is a survey of European history during the period of the Renaissance and the Reformation (ca. 1350-1600). Special attention will be given to the conditions influencing the development of Renaissance culture, such as the Black Death and Italian Humanism, as well as the religious and political changes prompted by Reformers like Martin Luther and John Calvin.
Grade Type: Letter Grade

HIS 360 - Enlightenment Europe

Units: 3
When Offered: Spring (even years)
This course is a survey of European history during the "Age of Absolutism," from the Thirty Years War to the French Revolution (17th-18th centuries). This period is characterized by the development of royal absolutism, European colonialism, and the Enlightenment. The course focuses on key changes in European culture, including the growth of mercantilism, development of liberalism, and challenges to traditional political and religious authorities.
Grade Type: Letter Grade

HIS 363 - History of England to 1688

Units: 3
When Offered: Fall (odd years)

This course is a survey of English history from pre-Roman times to the Glorious Revolution in 1688. Special attention will be given to the political, religious and cultural changes produced by foreign conquest, Christian expansion, and the cross-Channel interests of the rulers of England.
Grade Type: Letter Grade

HIS 373 - History of England since 1688

Units: 3
When Offered: Spring (even years)
This course is a survey of English history since the Glorious Revolution in 1688. Special attention is given to political developments after the Glorious revolution, the expansion of British colonialism, industrialization and social change, religious movements within England and its colonies, and the impact of decolonization in the twentieth century.
Grade Type: Letter Grade

HIS 383 - The West in American History

Units: 3
When Offered: As offered
A study of the westward movement of the American frontier from the colonies to the Pacific with emphasis on the significant role of the frontier in the development of American ideals and institutions.
Grade Type: Letter Grade

HIS 393 - History of California

Units: 3
When Offered: Fall, Spring, & OPS
The social, economic, and political development of California from its discovery to the present. The latter part of the course is thematic in presentation (i.e., agriculture, transportation, water, etc.).
Grade Type: Letter Grade

HIS 399 - Independent Study

Units: 1-3
When Offered: As offered
This course is designed to afford the superior student an opportunity to work independently on subject matter of the student's choice. Supervision and evaluation will be provided by a member of the History faculty.
Grade Type: Letter Grade

HIS 401 - Special Topics in U.S. History

Units: 3
When Offered: As offered
Course concentrates on a specific topic in U.S. History.
Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

HIS 402 - Special Topics in Non-U.S. History

Units: 3
When Offered: As offered
Concentrates on a different topic in Non-U.S. History each time offered.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

HIS 403 - Special Topics in European History

Units: 3
When Offered: As offered
Course concentrates on a specific topic in European History.
Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

HIS 404 - Special Topics in World History

Units: 3
When Offered: As offered
Course concentrates on a specific topic in World History.
Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

HIS 420 - The Classical World

Units: 3
When Offered: Fall (even years)
The purpose of this course is to provide students with historical knowledge of the Classical World (Greece and Rome). Special attention is additionally given to the Christian and Greco-Roman origins of Western culture.
Grade Type: Letter Grade

HIS 423 - Medieval Civilization

Units: 3
When Offered: Spring (odd years)
This course is a survey of European history from the end of the Roman Empire to the emergence of the Renaissance. The course focuses on the creation of the Germanic kingdoms, the spread of Roman Christianity, and the development of Christendom. Special attention is given to the emergence of the institutional Church and its relationship with "feudal" Europe.
Grade Type: Letter Grade

HIS 430 - Cross and the Crescent

Units: 3
When Offered: Fall (odd years)
This course traces the history of Christian-Muslim relations over the last fourteen centuries, from the rise of Islam in the early AD 7th century to the confrontations between Islamists and the secular West in the AD 21st century. The course surveys several primary and key secondary texts for understanding Islam and the varied relations between Islamic- and Christian-oriented societies over time. Topics examined in greater detail include Muhammad and the beginnings and rise of Islam, Jesus and other Biblical figures in the Qur'an (Koran), cooperation and competition during the Middle Ages, the Crusades, and modern radical elements in Islam and Christianity.
Grade Type: Letter Grade

HIS 435 - The Holocaust: Historiographic, Philosophic and Religious Perspectives

Units: 3
When Offered: Spring (even years)
The course introduces the student to the extensive historiography covering the period of recent history and associated events cumulatively nominated the Holocaust/Shoah. It will provide opportunity for personal and in-depth analysis of some of the causes and consequences of this "war against the Jews." Items for study and reflection will include dramatic literary and film narratives, along with traditional historical analysis and documents.
Grade Type: Letter Grade

HIS 436 - Ethics After the Holocaust

Units: 3
When Offered: Fall (even years)
This course aims to introduce and explore the philosophical, social, historical, and theological aspects of ethical theory since the Holocaust. Specifically, after a brief historical introduction to contemporary philosophical and theological ethics, students will read and discuss a range of historical, philosophical and theological materials that deal with ethics during and after the Holocaust. The course will also address the contentious claim that the Holocaust actually seldom directly enters into such normative discourse, and so the class will then investigate the historical bases for that absence, with the aim of understanding and critiquing that claim. The course concludes with an investigation and discussion of forgiveness in the face of radical evil.
Grade Type: Letter Grade

HIS 437 - Studies in the Holocaust: Perpetrators and Victims, Rescuers, and Bystanders

Units: 3
When Offered: Fall (odd years)
The Holocaust was not only an event involving nations and groups, and the focus on six million who were murdered is not merely a passing statistic. This course takes a finer-grained look at individuals who were involved in these atrocities. Some were perpetrators, ordering and obeying orders to kill; others were victims, the targets of these attacks. Others were bystanders, those who did not directly participate, but stood by and allowed the killing to take place, and in some instances directly or indirectly benefited from the killing. Still others, much fewer in number, risked their status, their property, their liberty and even their lives and the lives of their loved-ones, to rescue those who were targeted for killing. Why and how did people decide to occupy these roles? We will take a close look at representative figures in all these categories, seeking to understand their positions, and what those figures and their lives teach us about ourselves and our options in the midst of contemporary troubles.
Grade Type: Letter Grade

HIS 440 - History Through Film

Units: 3
When Offered: As offered
This course leads students through a critical evaluation of the way in which the history and culture of a particular time and place (Greece, Rome, Japan, etc.) are portrayed through popular films. Students will read primary historical literature related to the historical content of the films and will compare how these films represent history accordingly.
Grade Type: Letter Grade

HIS 472 - Colonial America, 1607-1787

Units: 3
When Offered: As offered
This course will examine the thirteen English colonies in North America from the founding of Jamestown through the ratification of the Constitution. Topics such as the establishment of colonial corporate power, religious controversy and freedom, the entrenchment of African slavery, wars with Native communities and the emergence of modern political thought will define this course.
Grade Type: Letter Grade

HIS 474 - Early American Republic, 1787-1848

Units: 3
When Offered: As offered
This course will examine the establishment of the new United States under the Constitution. Topics such as internal development, westward expansion, social and religious movements, democratization and sectional crises leading to the Civil War define this course.
Grade Type: Letter Grade

HIS 475 - The Civil War and Its Political Crises, 1848-1865

Units: 3
When Offered: As offered
This course will examine both the causes and experiences of the American Civil War. Beginning with the ongoing crises leading to the War, this course will include the election of Lincoln, Southern secession, the role of slavery in the war, and experiences on the battlefield.
Grade Type: Letter Grade

HIS 476 - The Emergence of Modern America, 1865-1919

Units: 3
When Offered: As offered
This course will examine American life between the end of the Civil War and WWI. It will emphasize national reconstruction post-Civil War, westward expansion, the rise of industry, urbanization and immigration as well as the US experience in global imperialization and world war.
Grade Type: Letter Grade

HIS 478 - Modern America, 1920-1989

Units: 3
When Offered: As offered
This course will trace the national experience from the post-WWI era through the fall of the Berlin Wall. By emphasizing changes in the nation's modern political, cultural and social fabric, students will understand the history of the 20th Century.
Grade Type: Letter Grade

HIS 490 - Historiography

Units: 3
When Offered: Fall
This course is designed to provide the student with knowledge about the history of historical writing and research by analyzing the work of important past historians and various philosophies, theories, and perspectives on the nature of history itself. Emphasis will also be given to understanding history from a Christian perspective.
Grade Type: Letter Grade

HIS 491 - Internship in History

Units: 1-3
When Offered: Fall, Spring
Students enrolled in this course will gain valuable professional experience by utilizing knowledge and skills acquired as History majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisors. Students will identify and explore connections between their internship experiences and academic coursework.
Grade Type: Letter Grade

HIS 499 - Senior Project

Units: 3
When Offered: Spring
A senior capstone course designed to demonstrate the competence of History majors in the discipline and showcase their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.
Grade Type: Letter Grade
Prerequisite(s): HIS 490 and Senior status

HON 100 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 102 - Honors Seminar

Units: 2
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 150 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 152 - Honors Seminar

Units: 2
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 200 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical,

religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 250 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 300 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 350 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 352 - Honors Seminar

Units: 2
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 399 - Independent Study

Units: 3
When Offered: As offered
This course through independent study will investigate ideas systematically, progressively and in interdisciplinary fashion. The course will be thematically linked, so that students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technological perspectives. This course is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 400 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 402 - Honors Seminar

Units: 2
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 450 - Honors Seminar

Units: 3
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HON 452 - Honors Seminar

Units: 1
When Offered: As offered
This Honors Program seminar investigates ideas relevant to a specific assigned topic from the overall standpoint of a central discipline within the liberal arts. The investigation of ideas will proceed systematically, progressively, and in interdisciplinary fashion. Students will have the opportunity for intensive, focused study from historical, philosophical, religious, sociological, political, literary, economic and scientific/technology perspectives. An important dimension of the seminar is to examine the seminar topic's implications for Christian worldview thinking. This seminar is open only to students accepted into the Honors Program.
Grade Type: Letter Grade

HMS 100 - Introduction to Human Services

Units: 3
When Offered: OPS
Students will be introduced to the field of human services and will examine the human services as a profession. Students will explore the history of the helping relationship, the human services movement, intervention strategies within different settings, managed care, and models of service delivery. Students will also be introduced to career opportunities in fields such as: aging, homelessness, corrections, substance abuse, child welfare, mental health, and disabled populations.
Grade Type: Letter Grade

HMS 213 - Theories of Human Services

Units: 3
When Offered: OPS
Students will be introduced to fundamental theories of human services. This course aims to facilitate a greater understanding of how theoretical frameworks can be applied to the human services field and profession. Students will be exposed to a broad range of psychology-based counseling theories related to personal, social, and organizational issues. Personality theory and conceptual approaches in psychotherapy are featured, as well as multicultural issues and social justice themes.
Grade Type: Letter Grade
Prerequisite(s): HMS 100

HMS 310 - Diversity and Social Justice

Units: 3
When Offered: OPS
Students will be introduced to issues of diversity, oppression, human rights, and social justice. Students will examine people's perceptions of race, ethnicity, culture, religion, age, sex, sexual orientation, social and economic status, political ideology, disability, and how these contribute to discrimination and oppression. Students will learn about diverse cultures, family structure, roles, immigration, and assimilation experiences of marginalized groups. Students will also learn about the influence of dominant culture on these diverse and marginalized (population at risk) groups. This course will also focus on advancing human rights and students will learn how to resolve conflict that may emerge across diverse settings.
Grade Type: Letter Grade
Prerequisite(s): HMS 100

HMS 320 - Ethics and Legal Implications of Human Services

Units: 3
When Offered: OPS
The student is introduced to professional ethics in the helping professions. Class focuses on the knowledge, skills, and values essential to ethical decision-making in responsible practice. Case studies through integrated learning will be utilized for discussion, self-exploration, and skill building for problem solving of ethical issues and dilemmas.
Grade Type: Letter Grade
Prerequisite(s): HMS 100

HMS 330 - Context of Human Social Behavior

Units: 3
When Offered: OPS
Students will be introduced to the ways in which individuals and group behavior develop in interaction with the social environment. Through the lens of theoretical frameworks, students will understand the dimensions and complexity of the human experience and how culture shapes individual values, beliefs, and worldviews. Human development will be examined throughout the lifespan, using the developmental scientific knowledge regarding opportunities and

vulnerabilities present during the different stages of the life cycle and the biopsychosocial factors that can influence individual development.
Grade Type: Letter Grade
Prerequisite(s): HMS 100

HMS 340 - Case Management and Assessment in Human Services

Units: 3
When Offered: OPS
This course will emphasize community organizational theory and practice in human services, and community needs and assessment. In addition, students will be asked to develop change strategies and planning techniques to address deficits. Focuses on case management as a method of human service delivery. Students will develop skills in managing multiple aspects of human service interventions in dual roles of coordinator and provider of direct services. Case presentations, skill development assignments, and community projects are required.
Grade Type: Letter Grade
Prerequisite(s): HMS 100

HMS 415 - Family Violence and Mandated Reporting

Units: 3
When Offered: OPS
An introduction to and overview of the phenomena of child abuse, as it relates to the helping professional. This class will examine the definition and cause of child abuse from sociological, cultural and psychological perspectives. The legal and child welfare systems will be studied in addition to treatment and prevention aspects of the child abuse issue.
Grade Type: Letter Grade
Prerequisite(s): HMS 100

HMS 420 - Crisis Intervention

Units: 3
When Offered: OPS
Introduction to the theory and practice of crisis intervention including triage assessment, skill-building, cultural implications, and practical applications. Approaches that assist individuals, groups, organizations and communities to manage crises will be explored and practiced. Understanding of the short-term nature of crisis intervention, and how counselors work with first responders and others will be explored.
Grade Type: Letter Grade
Prerequisite(s): HMS 100

HMS 495 - Human Services Capstone Project

Units: 3
When Offered: OPS
The course is an in-depth, student-centered experience that requires the integration of theory and practical experience. Students will apply the skills and techniques they have learned as well as their knowledge of agencies and culturally diverse client populations to a specific project. The project will identify an issue, problem, information gap or creative endeavor in which the student will explore, research, evaluate and theorize in a final paper. On successful completion of the course, students will have met the learning outcomes of the Human Services degree program.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

HUM 213 - Humanities I

Units: 3
When Offered: Fall, Spring, & OPS
The course consists of interrelations of history, art, literature, music, and philosophy. It covers the culture-epochs from

the Ancient River-Valley Civilizations through the Medieval period.
Grade Type: Letter Grade

HUM 223 - Humanities II

Units: 3
When Offered: Fall, Spring, & OPS
The course consists of interrelations of history, art, literature, music, and philosophy. It covers the culture-epochs from the Renaissance to contemporary times.
Grade Type: Letter Grade

HUM 325 - Culture and the Museum

Units: 3
When Offered: Fall
The purpose of this course is to explore critically the ways in which at least two of the five areas of the Humanities (Philosophy; Literature; Art; Music; General Historical Culture) are related to the experience of the museum, with specific attention given to the historical importance of the museum as an educational institution. The particular cultural emphases and museum(s) to visit are left to the discretion of the course professor.
Grade Type: Letter Grade

HUM 335 - The Holocaust and the Humanities

Units: 3
When Offered: Spring
The purpose of this course is to explore critically the ways in which at least two of the five areas of the Humanities (Philosophy; Literature; Art; Music; General Historical Culture) are impacted and interact with the historical experience of the Holocaust. The focus of this course will be on the Philosophy, Literature, Art, and History.
Grade Type: Letter Grade

HUM 400 - Special Topics in Humanities

Units: 3
When Offered: As offered
This course examines special topics in humanities. Topics are announced each time the course is offered.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

HUM 401 - Special Studies in Humanities

Units: 1
When Offered: As offered
This course examines special topics in humanities. Topics are announced each time the course is offered.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

ILL 200 - Special Topics in Illustration

Units: 1-3
When Offered: As offered
This course will explore and present selected topics in illustration.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade

ILL 210 - Illustration I

Units: 3
When Offered: Spring
This course builds a working knowledge of the historical and contemporary illustrators and various styles and approaches to the craft. Projects will build important skills in drawing, painting, color theory, storytelling, and typography.
Grade Type: Letter Grade
Fee: Additional course fee (TRAD only)

ILL 250 - Digital Painting I

Units: 3
When Offered: Fall
This course will introduce digital painting methods including conceptualizing, composing, refining and evaluating digital illustration. Additionally, the course will introduce digital illustration workflows and software applications for composition, color, contrast and value as a means to broaden skill sets in storytelling.
Grade Type: Letter Grade
Prerequisite(s): DES 101

ILL 310 - Illustration II

Units: 3
When Offered: Fall
This course will build a working knowledge of ideation, story building, technique and experimentation with media. Projects will build important art execution skills, as well as technical knowledge in the publishing industry.
Grade Type: Letter Grade
Fee: Additional course fee (TRAD only)
Prerequisite(s): ILL 210

ILL 350 - Digital Painting II

Units: 3
When Offered: Spring
This course is an advanced digital painting methods course that moves beyond basic digital workflows and software into advanced digital illustration techniques for composition, color, contrast, and value as a means to effective storytelling.
Grade Type: Letter Grade
Prerequisite(s): ILL 250
Pre- or Co- Requisite(s): GDM 235

ILL 400 - Special Topics in Illustration

Units: 1-3
When Offered: As offered
This course will explore and present selected topics in illustration.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade

ILL 410 - Illustration Studio

Units: 3
When Offered: Spring
This studio-based course is expected to be the culmination and synthesis of skills acquired in prior courses leading to the development of an refined illustration style development through the completion of multiple advanced illustration

portfolio projects.
Repeatable: May be repeated for a maximum of six (6) units of credit
Grade Type: Letter Grade
Fee: Additional course fee (TRAD only)
Prerequisite(s): ILL 310

ILL 499 - Senior Project

Units: 3
When Offered: Spring
This course is designed as a capstone showcase of the student's accumulated body of work while in the program. The Illustration Senior Show will consist of pieces from the student's portfolio.
Grade Type: Letter Grade
Prerequisite(s): Senior status

KIN 201M - Men's Varsity Basketball

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 201W - Women's Varsity Basketball

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 202M - Men's Varsity Baseball

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 203M - Men's Varsity Swimming

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 203W - Women's Varsity Swimming

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 204M - Men's Varsity Waterpolo

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 204W - Women's Varsity Waterpolo

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 205M - Men's Varsity Wrestling

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 206M - Men's Varsity Soccer

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 206W - Women's Varsity Soccer

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 207W - Women's Varsity Softball

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 208W - Women's Varsity Volleyball

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 209W - Women's Varsity Cheerleading

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 212W - Women's Varsity Dance

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 213M - Men's Varsity Cross Country

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 213W - Women's Varsity Cross Country

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 215M - Men's Varsity Golf

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 215W - Women's Varsity Golf

Units: 1
When Offered: As offered
Grade Type: Pass/Fail

KIN 216W - Women's Varsity Stunt

Units: 1
When Offered: As offered
Grade Type: Pass/Fail
Prerequisite(s): Students must obtain consent of the team coach to register for intercollegiate athletics.

ICS 105 - Introduction to Global Studies

Units: 3
When Offered: Fall, Spring
This course addresses the basic elements of the Christian faith in the context of participating in God's global agenda. Topics include Christian worldview, the Kingdom of God, the gospel of Jesus Christ, the work of the Holy Spirit, the mission of the Church, and the role of prayer.
Grade Type: Letter Grade

ICS 130 - Intercultural Communications for International Students

Units: 3
When Offered: As offered
This course is designed to assist international students in understanding and implementing successful intercultural communications theory, integrating successfully into American academic culture, and developing necessary communication skills in order to relate cross-culturally in their academic, professional, and personal lives. The course will also aid the student in interacting with Christian faith.
Grade Type: Letter Grade
Prerequisite(s): International Student or Permission of the Dean

ICS 205 - Models of Discipleship

Units: 3
When Offered: Fall
This course focuses on learning how to follow Jesus and grow as a Christian with the dual aim of pleasing God and teaching others how to do the same. Various biblical models of Christian growth and training will be explored and implemented within the context of class discussion and small group participation.
Grade Type: Letter Grade
Prerequisite(s): 3 units of Biblical Studies or ICS 105 or 305

ICS 305 - Global Christianity

Units: 3
When Offered: Spring
A general survey of the redemptive activity of God in the world -- past, present, and future. Topics include the biblical basis of God's global activity, historical perspectives, mission strategies, and cultural implications, as well as contemporary missiological issues.
Grade Type: Letter Grade

ICS 325 - Spiritual Formations for Global Engagement

Units: 3
When Offered: As offered
An exploration of biblical principles that are foundational to intimacy with Christ and effective engagement in the mission of Christ. Students will learn to implement these principles in their own lives as they participate in the kingdom of God through global engagement.
Grade Type: Letter Grade
Prerequisite(s): Previous Biblical Studies coursework

ICS 375 - Current Events and Movements

Units: 3
When Offered: Fall, Spring
This course will examine current political, social, economic and human events in select areas of the world. Students will explore the global impact of these events and will address ways in which the Church can provide positive change.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): 3 units of Biblical Studies or ICS 105 or 305

ICS 410 - Global and Urban Ministries

Units: 3
When Offered: Spring
This course focuses on theories and practical strategies for local and global development. Students will examine a theology of community, institutions such as the "marketplace", and the biblical and historical role of the church in community development.
Grade Type: Letter Grade
Prerequisite(s): 3 units of Biblical Studies, or ICS 105, or 305

ICS 415 - Special Topics in Intercultural Studies

Units: 3
When Offered: As offered
An examination of specific area(s) of Intercultural Studies.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): Previous Intercultural Studies coursework

ICS 430 - Intercultural Communication and Practice

Units: 3
When Offered: Spring
This course will address principles and processes of communication from one culture to another. Attention will be given to different perceptions, ways of thinking, values, verbal and non-verbal expression, and sub-groups within a given culture.
Grade Type: Letter Grade
Prerequisite(s): 3 units of Biblical Studies or Intercultural Studies coursework

ICS 431 - Cross-cultural Immersion

Units: 3
When Offered: Spring, Summer
This course provides students with the opportunity for supervised cross-cultural immersion and study abroad in order to experience the challenges of serving in an international setting. The immersion experience is designed to create a context for extended and applied learning as the course concepts are integrated into life experiences. Course material will be presented through lectures, small group discussions, reading assignments, and cultural immersion with an emphasis on relational development and service.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Associate Dean

ICS 435 - Evangelism and Church Planting

Units: 3
When Offered: Fall
This course examines the biblical principles of evangelism and church planting. Students will learn to combine the biblical content of the gospel with appropriate skills for sharing the gospel, with the aim of training disciples for the local church. Attention will also be given to strategies of church planting for local and global contexts. Student involvement in evangelistic ministry is expected.
Grade Type: Letter Grade
Prerequisite(s): Previous Biblical Studies coursework

ICS 495 - Field Practicum

Units: 3-15
When Offered: Fall, Spring, Summer
This course provides Global Studies majors with extended cross-cultural experience through an approved study abroad or domestic program. Students will spend a semester working with resident field personnel. The field practicum provides an opportunity to develop cross-cultural experience while exploring specific geographical, cultural and career areas of interest.
Repeatable: May be repeated for a maximum of fifteen (15) units
Grade Type: Letter Grade
Prerequisite(s): Global Studies major, ANT 225, ICS 105, 205, 305, and permission of the Associate Dean

IDS 498 - Interdisciplinary Studies Capstone

Units: 3
When Offered: OPS
Students will review their personal and professional development based upon their baccalaureate experiences at California Baptist University. Students will evaluate their growth and development through the program, identify their relative strengths and areas for growth, and develop a personal development plan. Students will demonstrate critical self-reflection and ability to make judicious, relevant and insightful applicants and professional judgment from their cumulative undergraduate experience.
Grade Type: Pass/Fail
Prerequisite(s): Permission of Department Chair

IDS 499 - Capstone Portfolio

Units: 1
When Offered: OPS
Students will review their personal and professional development based upon their baccalaureate experiences at California Baptist University. Students will evaluate their growth and development through the program, identify their relative strengths and areas for growth, and develop a personal development plan. Students will demonstrate critical self-reflection and the ability to make judicious, relevant and insightful applicants and professional judgement from

their cumulative undergraduate experience.
Grade Type: Pass/Fail

IND 200 - Special Topics in Interior Design

Units: 1-6
When Offered: As offered
This course explores and presents selected topics in interior design.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade

IND 310 - Interior Design Studio I

Units: 6
When Offered: Fall
This course explores the concepts and practices within interior design related to space, planning, and culture.
Grade Type: Letter Grade
Prerequisite(s): ARC 122

IND 312 - Interior Design Studio II

Units: 6
When Offered: Spring
This course explores the concepts and practices within interior design relating to residential construction including kitchen, bath design, and universal design.
Grade Type: Letter Grade
Prerequisite(s): ARC 122

IND 350 - Space Planning and Code

Units: 3
When Offered: Fall
This course focuses on space planning with an emphasis on programming and behavior aspects of space. Additionally, the course introduces and applies federal and state code and specifications concerning life-safety issues, barrier free access and universal design requirements relative to interior design. Skill and knowledge are applied to the design of spaces.
Grade Type: Letter Grade
Prerequisite(s): ARC 120

IND 380 - Materials, Finishes, and Sourcing

Units: 3
When Offered: Fall (even years)
This course explores the process of material research and its use in the design of interior space.
Grade Type: Letter Grade
Prerequisite(s): ARC 122

IND 400 - Special Topics in Interior Design

Units: 1-6
When Offered: As offered
This course explores and presents non-studio based selected topics in interior design.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade

IND 401 - Special Topics in Interior Design Studio

Units: 1-6
When Offered: As offered
This course explores and presents studio based selected topics in interior design.
Repeatable: May be repeated for a maximum of twelve (12) units with change in topic
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

IND 410 - Interior Design Studio III

Units: 6
When Offered: Fall
This course explores the concepts and practices within interior design related to Commercial and or Health Service interiors including consideration of building codes.
Grade Type: Letter Grade
Prerequisite(s): ARC 122

IND 412 - Interior Design Studio IV

Units: 6
When Offered: Spring
This course explores the concepts and practices within interior design related to with advanced design solutions in a variety of settings.
Grade Type: Letter Grade
Prerequisite(s): ARC 122

IND 464 - International Seminar

Units: 3
When Offered: As offered
The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying interior design in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants.
Grade Type: Letter Grade
Prerequisite(s): IND 310

IND 464G - International Seminar

Units: 3
When Offered: As offered
The course offers students an opportunity to experience and discuss the development of non-American built environments. Focused on studying interior design in concert with, and through the lens of an allied field of study, the course examines contemporary phenomena in the built environment and its relationship with its inhabitants. Offered only abroad.
Grade Type: Letter Grade
Fee: Additional trip fee(s)
Prerequisite(s): IND 310

IPE 410 - Interprofessional Education: Exposure

Units: 1
When Offered: Fall
This IPE introductory course provides exposure to learners early in their educational programs to engage in activities that offer knowledge based information, focused on describing roles and responsibilities and demonstrating awareness

of interprofessional (IP) communication and teamwork in the context of shared curricular topics required across health professions. An introductory level hybrid course of Inter-Professional Education Collaborative (IPEC) competencies and an end of course seminar for all students will be required.
Grade Type: Pass/Fail
Prerequisite(s): Social Work major

IPE 420 - Interprofessional Education: Immersion

Units: 1
When Offered: Spring
This course will engage intermediate learners in their educational program together through their own programs activities that provide opportunities to continue to build upon IPE competencies and develop collaborative skills, knowledge, and attitudes. Programs will integrate multifaceted active teaching methods such as simulation, problem-based learning, clinical practicum, community-based projects, service-learning, and other IPE activities.
Grade Type: Pass/Fail
Pre- or Co- Requisite(s): IPE 410

IPE 430 - Interprofessional Education: Competence

Units: 1
When Offered: Spring
This course prepares advanced learners to work collaboratively, as appropriate, to assess, plan, provide care/intervention, and make decisions to optimize client/patient, family, and community health outcomes, and improve quality of care through a university-wide IPE simulation. Students will draw upon previously learned knowledge, skills, and attitudes related to the four domains of IPE education to effectively apply leadership qualities that support collaborative practice and team effectiveness through reflection and application.
Grade Type: Pass/Fail
Prerequisite(s): IPE 420

INH 101 - Introduction to International Health

Units: 3
When Offered: As offered
This course will orient students to the socio-cultural and economic influence on population-level variation in health and illness. Students will learn about key players in international health, Ministries of Health, UN agencies, foundations, and NGOs. They will be introduced to the major health problems currently affecting the developing world, and will also learn about the CBU mission, objectives, and initiatives, its local and international partners, and about opportunities to gain experience in international health.
Grade Type: Letter Grade

INH 300 - Outbreak and Emergency Preparation and Response

Units: 3
When Offered: As offered
This course is an intensive introduction to public health emergency preparedness and response and covers a number of topics, including: the role of public health in disasters; intentional mass threats; emergency operations planning and exercises; and infectious disease emergency readiness.
Grade Type: Letter Grade

INH 305 - Maternal and Child Health in Developing Countries

Units: 3
When Offered: As offered
This course provides an overview of the critical health problems of women, adolescents, and children in resource limited settings and examines programmatic interventions and practical strategies that respond to those problems. The

course covers MCH proposal development, community involvement and program implementation and management. Students will acquire skills in assessing and understanding health issues among women, adolescents and children in a community, setting measurable MCH objectives, planning and evaluating appropriate and culturally-relevant interventions, and involving communities in these processes.
Grade Type: Letter Grade

INH 320 - Population Health and Family Planning

Units: 3
When Offered: As offered
This class provides an introduction to the wide range of global health challenges facing countries today such as the measurement of health status, infectious and chronic diseases, injuries, nutrition, reproductive health, global environmental health and complex emergencies. This class will also include discussion of family planning methods and implications both in the United States and globally; focusing on topics such as the declining population, gender and health, contraception, health policy and implications regarding family planning as well as the discussion of the Millennium Development Goals (MDG's).
Grade Type: Letter Grade

JRN 150 - Media and Society

Units: 3
When Offered: Fall, Spring, & OPS
Functions, responsibilities, and influence of various mass media and emerging forms of niche media in society. Students review the theories, structures, functions, practices, economics, critical analyses, and historical aspects of mass media and its social responsibility in society.
Grade Type: Letter Grade

JRN 170 - Writing for Mass Media

Units: 3
When Offered: Fall, Spring, & OPS
An introduction to mass media writing. Students will utilize journalistic reporting, editing and writing for mass audiences intended for distribution across electronic and print media outlets.
Grade Type: Letter Grade
Prerequisite(s): ENG 113 or 113E

JRN 200 - Special Topics in Journalism

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of Journalism. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

JRN 210 - Photojournalism

Units: 3
When Offered: Spring
The desire to understand the world through images and text has never been in higher demand, thus the need for photojournalists with a commitment to truth is just as high. The emphasis is on how to use the camera to communicate a message of awareness and lasting impact. Weekly exercises, both written and photographic, will be the foundation of this experience. Recent trends in the industry, as well as philosophical and historical roots of the profession, will be examined.
Grade Type: Letter Grade

JRN 215 - News Production for Broadcast and Print Journalism

Units: 1-3
When Offered: Fall, Spring
The purpose of this production course is to prepare students to be future journalists by creating a high-quality publication, The Banner. Students will learn to work within the guidelines of the university, the publisher of the newspaper. Students will learn to perform all tasks involved with the production of a bi-weekly publication, which includes meeting deadlines and completing assigned tasks.
Repeatable: May be repeated for a maximum of eight (8) units with change in topic
Grade Type: Letter Grade

JRN 253 - News Editing and Design

Units: 3
When Offered: OPS
Principles and practice of newspaper editing, copy improvement, headline writing, news photos and cutlines, wire services, typography, copy schedules and control, page design and layout.
Grade Type: Letter Grade
Prerequisite(s): ENG 113 or 113E

JRN 254 - Publication Layout and Design

Units: 3
When Offered: Fall, Spring
Principles and practical experiences in layout and design, including copy, typography, photos and cutlines, and developing pre-press documents to provide practical knowledge of state-of-the-art publishing technology.
Grade Type: Letter Grade

JRN 310 - Advanced Photojournalism

Units: 3
When Offered: Fall (even years)
Principle concerns will be advanced problem solving and messaging for photography as a key element in journalism, as well as exploring the photojournalist's role in the news and editorial process. Visual perception, the role of words, picture editing, taste and judgement will also play a part in class discussion and presentations. Each week, both visual and written assignments will move the class to a better understanding of the potential and power of a journalistic package.
Grade Type: Letter Grade
Prerequisite(s): JRN 210

JRN 312 - Magazine and Feature Writing

Units: 3
When Offered: Spring
Planning, gathering material, writing and preparation of articles for specialized and general media publications, with emphasis on the magazine article and newspaper feature; includes overview of the magazine market. Laboratory and field work. Students may only earn credit for either JRN 312 or JRN 350.
Grade Type: Letter Grade
Prerequisite(s): JRN 170

JRN 315 - News Reporting

Units: 3
When Offered: Fall, Spring
Practice in gathering information, conducting interviews and using online databases in writing and reporting news

stories. Emphasis on style, clarity, accuracy, responsibility in handling the reporting of news. Laboratory and fieldwork.
Grade Type: Letter Grade
Prerequisite(s): JRN 170

JRN 320 - Media Law, Ethics, and Copyright

Units: 3
When Offered: Fall, Spring, & OPS
An introduction to the ethical and legal aspects of public relations and journalism, including print, online and broadcasting. Students will gain practical insight into the field through review of real-world case studies and materials on ethics, policies and law.
Grade Type: Letter Grade

JRN 325 - Principles of Podcasting and Broadcasting

Units: 3
When Offered: Fall
This course will provide students with an introduction to electronic and traditional broadcasting principles. Students will analyze, synthesize, and evaluate online and traditional broadcasting principles in the form of podcasts.
Grade Type: Letter Grade

JRN 340 - Sports Writing

Units: 3
When Offered: Spring (odd years)
Students learn how to write a sports story, examining issues from race and gender to hero worship and sportsmanship, as well as trends and philosophies and the ethics of what sports journalists do and why they do it. Students will gain experience in covering games; writing for major and minor sports; interviewing; finding feature stories; columns; legal aspects of sports reporting; and covering breaking news in sports.
Grade Type: Letter Grade

JRN 349 - Editing for Print and Online Media

Units: 3
When Offered: Spring & OPS
A course involving students in an in-depth study of procedures of copy editing for newspapers, magazines and online media. Through assignments and exercises, students will develop superior skills in grammar and word usage, punctuation, spelling, style, fact-checking, use of reference books, and writing headlines and captions. Students will practice substantive editing, and proofreading for print and online media. The special conditions of the increasingly important Internet to copy editors will be demonstrated.
Grade Type: Letter Grade
Prerequisite(s): ENG 113, 113E, or JRN 170

JRN 350 - Magazine Writing

Units: 3
When Offered: OPS
Development of versatile writing and research skills for selected print media, with emphasis on magazine article and newspaper feature, includes overview of magazine market. Students may only earn credit for either JRN 312 or JRN 350.
Grade Type: Letter Grade

JRN 360 - Audio and Video Newsgathering

Units: 3
When Offered: Spring (even years)
This course provides students opportunities to participate in the production of audio and video news stories and newscasts, using professional principles, aesthetics, ethics, and practices of journalistic audio and video reporting, producing in-field and project assignments.
Grade Type: Letter Grade

JRN 370 - Social Media Strategies

Units: 3
When Offered: Fall
This course provides students opportunities to analyze, use and produce content for current and emerging social media, such as Twitter, Facebook, Tumbler, YouTube, Reddit, and other professional business platforms.
Grade Type: Letter Grade

JRN 371 - Applied Journalism Production

Units: 3
When Offered: OPS
The purpose of this course is to prepare students to be a skilled journalist. The type of journalism covered will be newspaper and magazine writing, business writing, website-style writing and freelance writing. Students will learn to analyze published material.
Grade Type: Letter Grade

JRN 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

JRN 400 - Special Topics in Journalism

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of journalism. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

JRN 410 - Editing for Photojournalism

Units: 3
When Offered: Fall (odd years)
A deeper understanding of the relationship of words and images will be explored, as well as ethical persuasion and strategic communication within the context of today's media landscape. Students will gain a deeper understanding of the issues and challenges involved in assembling optimum media strategies, and the selection of appropriate media. Serving the public through engaging, carefully selected visual strategies will be studied. Weekly visual, as well as written assignments will strengthen the classroom experience.
Grade Type: Letter Grade
Prerequisite(s): JRN 210

JRN 412 - Advanced Magazine and Yearbook Production

Units: 1-3
When Offered: Fall, Spring
The purpose of this course is to prepare students to be proficient in writing, yearbook design, and publication. This experience will be invaluable to media-related professions as well as business, education, and management positions.
Repeatable: May be repeated for a maximum of eight (8) units with change in topic
Grade Type: Letter Grade

JRN 414 - Visual Documentary Reporting

Units: 3
When Offered: Fall (odd years)
A single, primary, in-depth project, involving a social issue with the intent to educate, inform, and implement change, will be at the heart of the class. Weekly visual and written goals will provide consistent retooling along the way. The collection of images and other related content in the field, as well as research, message construction, writing and editing, will play vital roles. Real world investigation will be vital in this advanced journalistic endeavor. Students will show and discuss their work weekly, hare progress and respond to questions and fine tune the direction of their projects together. The style, length, direction, point of view, and primary message will grow out of decisions made in these small groups. Depending on the decisions of the small groups, the project may become a collaborative effort. The final project will be both visual and written.
Grade Type: Letter Grade
Prerequisite(s): JRN 210

JRN 415 - Advanced News Production for Broadcast and Print Journalism

Units: 1-3
When Offered: Fall, Spring
The purpose of this course is to prepare students to be future journalists by creating a high quality publication, The Banner. Students will learn to work within the guidelines of the university, the publisher of the newspaper. Students will learn to perform all tasks involved with the production of a bi-weekly publication, which includes meeting deadlines and completing assigned tasks. Students will maintain a positive and cooperative attitude toward student editors, advisor, and California Baptist University administration. A Christian team spirit and goal of excellence will be emulated and protected by all students in the class.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade

JRN 420 - Public Relations Writing, Campaigns, and Strategies

Units: 3
When Offered: OPS
This course will prepare students with skills and an understanding of writing, campaigns and research to meet public relations goals for a variety of audiences through various forms of media.
Grade Type: Letter Grade

JRN 430 - Multimedia Reporting, Editing, and Producing

Units: 3
When Offered: Fall
This course prepares the student to work as a journalist in today's newsrooms, where the online and digital platforms are at least as important as the traditional print or broadcast platforms. The emphasis is on gathering assets in the field (text, photographs, video, audio) and then using those assets to tell a comprehensive story.
Grade Type: Letter Grade

JRN 440 - Writing Columns and Blogs

Units: 3
When Offered: Spring (even years)
Principles and practices of writing in the shorter forms of journalism, including editorials and opinion essays for print, electronic and online media outlets. Includes writing columns, blogs, opinion-page articles, and reviews of theater, music, books, and film.
Grade Type: Letter Grade
Prerequisite(s): JRN 170

JRN 450 - Internship in Journalism

Units: 1-3
When Offered: Fall, Spring
Under faculty supervision, students will be assigned to a position, utilizing principles of journalism acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of journalism as a whole.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

JRN 451 - Internship in Journalism

Units: 1-3
When Offered: Fall, Spring
Under faculty supervision, students will be assigned to a position, utilizing principles of journalism acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of journalism as a whole.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade
Prerequisite(s): JRN 450 and permission of the Department Chair

JRN 460 - Investigative Reporting

Units: 3
When Offered: Fall (even years)
The tradition of investigative reporters, who uncover facts and write articles that expose waste, wrongdoing, mismanagement, fraud, conflict of interest and abuse of authority, and promote change and reform, has a long and proud history that stands alongside more conventional journalistic practices. Students are provided with reportorial skills and techniques required by journalists who develop articles of substance and depth in specialized areas, with emphasis given to research, analysis, and interpretation of complex issues in writing for publication.
Grade Type: Letter Grade
Prerequisite(s): JRN 170

JRN 470 - Reporting and Producing for Broadcast Media

Units: 3
When Offered: Spring (odd years)
This course is designed to improve and expand the news gathering and writing skills of the media student, further developing understanding of broadcast news writing, news judgment and construction of broadcast news stories, as well as social responsibility and an ethical framework for broadcast journalists.
Grade Type: Letter Grade

KIN 101 - Orientation to the Discipline

Units: 3
When Offered: Fall, Spring
This course is designed to introduce students to the basic skills necessary for academic success in the discipline of Kinesiology and to provide students with an overview of professions in which that major may be applied.
Grade Type: Letter Grade

KIN 106 - Volleyball

Units: 1
When Offered: Fall, Spring
Instruction in the basic rules, skills and equipment related to lifelong participation in volleyball.
Grade Type: Letter Grade

KIN 107 - Cross Training

Units: 1
When Offered: Fall, Spring
Instruction in multiple and varied activities intended to improve the five components of personal health related fitness.
Grade Type: Letter Grade

KIN 108 - Swimming

Units: 1
When Offered: Fall, Spring
A general swimming course designed to teach basic water safety and beginning to intermediate level swimming strokes.
Grade Type: Letter Grade

KIN 109 - Lifesaving

Units: 1
When Offered: Fall, Spring
A lifesaving course designed to meet American Red Cross life guarding certification requirements.
Grade Type: Letter Grade

KIN 110 - Physical Activity

Units: 1
When Offered: Fall, Spring
Physical activity courses include a combination of cognitive and psychomotor, and affective skills designed to enhance the student's ability to participate in a lifelong fitness activity.
Grade Type: Letter Grade

KIN 112 - Tennis

Units: 1
When Offered: Fall, Spring
Instruction in the basic rules, skills, and equipment related to lifelong participation in tennis.
Repeatable: credit
Grade Type: Letter Grade

KIN 113 - Golf

Units: 1
When Offered: As offered
Instruction in the basic rules, skills, equipment, and etiquette related to lifelong participation in golf.
Grade Type: Letter Grade

KIN 114 - Walking and Running for Fitness

Units: 1
When Offered: Fall, Spring
Instruction in exercise program development related to improvement cardio respiratory fitness.
Grade Type: Letter Grade

KIN 115 - Weight Training

Units: 1
When Offered: Fall, Spring
Instruction in introductory strength training principles and techniques, as well as fitness-related nutritional topics.
Grade Type: Letter Grade

KIN 116 - Bowling

Units: 1
When Offered: Fall, Spring
Instruction and practice in the basic skills related to lifelong participation in bowling.
Grade Type: Letter Grade

KIN 117 - Self Defense I

Units: 1
When Offered: Fall, Spring
Instruction in the basic skills of unarmed self-defense. This includes the use of blocking, shifting, punching, striking, and kicking. Subsequent enrollment in KIN 118 will provide an opportunity for added skill development.
Grade Type: Letter Grade

KIN 118 - Self Defense II

Units: 1
When Offered: As offered
Designed for the student wishing to review basic self defense skills and begin work on intermediate skills in unarmed self defense. This course is not repeatable for credit.
Grade Type: Letter Grade
Prerequisite(s): KIN 117

KIN 119 - Bicycling

Units: 1
When Offered: As offered
Instruction in bicycling safety, maintenance and repair, and cycling techniques related to lifelong participation in cycling.
Grade Type: Letter Grade

KIN 121 - Outdoor Adventure

Units: 1
When Offered: Fall, Spring
Instruction in the design, implementation, and leadership of adventure activities and programs. A field trip is required.
Grade Type: Letter Grade

KIN 122 - Aerobics

Units: 1
When Offered: As offered
This course is designed to teach students the proper technique for step aerobics as well as introduce them to various forms of lifetime aerobic activity.
Grade Type: Letter Grade

KIN 123 - Soccer

Units: 1
When Offered: Fall, Spring
Instruction in the basic rules, skills, and equipment related to lifelong participation in Soccer. This course is not repeatable for credit.
Grade Type: Letter Grade

KIN 124 - Basketball

Units: 1
When Offered: Fall, Spring
Instruction in the basic rules, skills, and equipment related to lifelong participation in basketball. This course is not repeatable for credit.
Grade Type: Letter Grade

KIN 125 - Aquatic Fitness

Units: 1
When Offered: Fall, Spring
Instruction in multiple and varied activities intended to improve the five components of personal health related fitness through aquatics.
Grade Type: Letter Grade

KIN 126 - Health Related Fitness

Units: 1
When Offered: Fall, Spring
Instruction in multiple and varied activities intended to improve aerobic & anaerobic cardiovascular fitness through the five components of personal health related fitness.
Grade Type: Letter Grade

KIN 200 - Special Topics in Kinesiology

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of Kinesiology. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

KIN 210 - Applied Physical Activity

Units: 2
When Offered: As offered
A combination of theoretical classroom and practical instruction designed to teach students how to coach or instruct various sport activities. Subject areas may include baseball, basketball, football, soccer, tennis, and more.
Grade Type: Letter Grade

KIN 212 - First Aid and Safety

Units: 1
When Offered: Fall, Spring, & OPS
Theory and practice for prevention and care of accident or sudden illness. The course meets the requirements for Red Cross, CPR, and First Aid Certificates. Students may only earn credit for either KIN 212 or KIN 312.
Grade Type: Letter Grade
Fee: Additional lab fee

KIN 213 - Community Emergency Response Team Training

Units: 1
When Offered: As offered
The purpose of Community Emergency Response Team (CERT) training is to provide students who complete the course with the basic skills they will need to respond to their community's immediate needs in the aftermath of a disaster, when emergency services are not immediately available. By working together, CERTs can assist in saving lives and protecting property using the basic techniques in the course.
Grade Type: Letter Grade

KIN 253 - Functional Movement Anatomy

Units: 3
When Offered: OPS
A study of the creation and maintenance of human movement through the muscular, skeletal, and nervous system. Emphasis is on gross motor movement specific to physical activity and sport, with attention to motor dysfunction.
Grade Type: Letter Grade

KIN 264 - Movement Anatomy

Units: 3
When Offered: Fall, Spring, & OPS
A study of the muscle and bone structure of the human body and how they work together to create movement. Emphasis is on the function of specific muscles and bones in creating defined movement.
Grade Type: Letter Grade
Prerequisite(s): BIO 153

KIN 274 - Applied Movement Anatomy

Units: 3
When Offered: Fall, Spring, & OPS
Continued study of the muscle and bone structure of the human body. Heavy emphasis is placed on the biomechanical laws of movement.
Grade Type: Letter Grade
Prerequisite(s): KIN 264

KIN 298 - Extended Field Experience in Kinesiology

Units: 12
When Offered: As offered

A full-time field experience course for students who will be engaged in a pre-approved educational or professional position away from campus enhancing the student's knowledge and skills within the broad field of Kinesiology.
Grade Type: Letter Grade
Prerequisite(s): Approval of the Department Chair

KIN 300 - Nutrition Science

Units: 3
When Offered: Fall, Spring, & OPS
Includes the study of principles of modern nutrition, the importance of a scientific knowledge of nutrition, specific food nutrients, nutritional controversies, and a study of convenience foods and their impact on present day diets.
Grade Type: Letter Grade

KIN 301 - Sport Coaching and Officiating

Units: 3
When Offered: As offered
An introduction to the skills needed to successfully coach and officiate an individual or team sport at any of the various levels of competition (youth - college).
Grade Type: Letter Grade

KIN 302 - Contemporary Health Issues

Units: 3
When Offered: Fall, Spring, & OPS
Major areas include personal, family, and community health, including the effects of alcohol, dangerous drugs and narcotics, degenerative and infectious diseases, and tobacco on the human body. Exploration of community resources related to health issues is offered. Meets California Teacher Credential requirements.
Grade Type: Letter Grade

KIN 303 - Foundations of Kinesiology

Units: 3
When Offered: Fall, Spring, & OPS
A study of the historical, philosophical, and scientific foundations of Kinesiology. Emphasized is a critical view of the nature and spectrum of the discipline.
Grade Type: Letter Grade

KIN 304 - Introduction to Athletic Training

Units: 3
When Offered: As offered
This course is designed to introduce the student to the vocabulary, theories, principles, and skills involved with the profession of athletic training. A special emphasis is placed on the Athletic Training profession including the various healthcare professions and responsibilities, administration, and legal concerns; risk management including nutritional concerns, protective equipment, and prophylactic taping, wrapping, and bracing; Acute Injury Management including emergency care and universal precautions; and basic Healthcare Administration. While the course content is directed to the preparation of students who would like to pursue future education in an entry-level graduate athletic training program, it is also pertinent to other therapeutic and sports medicine related sub-disciplines.
Grade Type: Letter Grade

KIN 305 - Applied Sport Management

Units: 3
When Offered: Fall

A study of basic management principles and their application to the field of sport.
Grade Type: Letter Grade

KIN 310 - Fundamentals of Movement and Physical Activity

Units: 3
When Offered: As offered
An introduction to physical activity theory, motor learning theory, and physical activity. Students will be introduced to nontraditional and traditional sport history, skills, rules, and progression of teaching skills to promote physical activity. Emphasis is on demonstrating mastery in specific sport skills, instruction, and assessment. Course designed to meet California Teacher Credentialing subject matter requirements.
Grade Type: Letter Grade

KIN 312 - Emergencies in Sports Medicine

Units: 3
When Offered: As offered
This course prepares the student to be a First Responder and ready to give emergency care required for catastrophic and/or life-threatening injuries and illnesses to physically active individuals. Completion of this course provides certification in professional rescuer CPR, Bloodborne pathogens, AED and First Aid. Students may only earn credit for either KIN 212 or 312.
Grade Type: Letter Grade

KIN 315 - Sport Governance

Units: 3
When Offered: Spring
This course is an examination of sport organizations focused on both professional and amateur governance structures and processes. The study of policy in educational, non-profit, professional and international sport venues will also be addressed.
Grade Type: Letter Grade

KIN 332 - Lifelong Motor Development

Units: 3
When Offered: Fall, Spring, & OPS
A study of the physical growth and development of humans and how it interacts with and influences motor learning and performance.
Grade Type: Letter Grade

KIN 353 - Care and Prevention of Athletic Injuries

Units: 3
When Offered: Fall, Spring, & OPS
A course providing instruction and experience in the prevention and care of injuries incurred in athletics. Methods of taping, therapy, health habits, and protective equipment are considered.
Grade Type: Letter Grade
Prerequisite(s): KIN 253 or 264

KIN 363 - Movement Experiences for Children

Units: 3
When Offered: Fall, Spring, & OPS
A study of the physical needs of elementary school age children. Emphasis is on physical growth and development,

basic movement skills, and the designing of movement programs for children.
Grade Type: Letter Grade

KIN 383 - Exercise Physiology

Units: 3
When Offered: Fall, Spring, & OPS
Physiological principles of exercise. Topics include the responses and adaptations of the neuromuscular system, bioenergetics, and the endocrine, cardiovascular and pulmonary systems to exercise.
Grade Type: Letter Grade
Prerequisite(s): BIO 153

KIN 390 - Sport Performance Techniques

Units: 3
When Offered: As offered
An application of body mechanics, movement screening, and resistance training techniques to improve sport performance outcomes. The course uses a case study approach to challenge the student to apply content in a variety of sport, exercise and physical activity settings.
Grade Type: Letter Grade
Prerequisite(s): KIN 274

KIN 393 - Applied Exercise Physiology

Units: 3
When Offered: Fall, Spring, & OPS
A continuation of Exercise Physiology. Topics include applied exercise physiology, gender considerations, environmental exercise physiology, and ergogenic aids.
Grade Type: Letter Grade
Prerequisite(s): KIN 383

KIN 395 - Physical Activity for Early Development

Units: 3
When Offered: Fall, Spring
This course provides an activity-based approach to acquiring the skills needed to implement a physical education curriculum for elementary school aged children. Emphasis is on the ability to apply appropriate fundamental movement forms for physical and social development according to cultural and historical norms. Students will demonstrate skill through multiple physical activity labs. This course is designed to meet California Teacher Credential requirements for single subject and multiple subjects learners.
Grade Type: Letter Grade

KIN 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

KIN 400 - Special Topics in Kinesiology

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of Kinesiology. Topic varies for different semesters.

Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

KIN 402 - Diversity in Sport and Physical Activity

Units: 3
When Offered: Fall
A historical analysis and introduction to physical activity, games, and cultural activities from around the world. Students will be active in the participation and implementation of activities.
Grade Type: Letter Grade

KIN 404 - Movement Experiences for Middle School Students

Units: 3
When Offered: Fall & OPS
An introduction to standards-based middle school physical education curriculum is provided. Emphasis is on designing a curriculum that emphasizes working cooperatively to achieve a common goal, meeting challenges, making decisions, and working as a team to solve problems. Course includes both classroom and physical activities.
Grade Type: Letter Grade

KIN 405 - Cooperative Movements in Physical Activity and Team Sport

Units: 3
When Offered: Fall
This course provides an activity-based approach to acquiring the skills needed to instruct cooperative movements in physical activity and team sports. Emphasis is on the ability to apply appropriate movement forms for physical growth and development in middle-school aged children. This activity-based course focuses on the science of human movement, social development, cultural, and historical norms. Students will engage in collaborative learning, practical experience, and structured fieldwork hours. The course is designed to meet California Teacher Credentialing requirements, PETE recommendations, and California physical education content standards for Middle School Students.
Grade Type: Letter Grade
Prerequisite(s): KIN 310

KIN 414 - Methods of Teaching Sport Activities

Units: 3
When Offered: Spring & OPS
Introduction to subject matter content, teaching methods, and technique related to the design and implementation of a high school physical education curriculum. Course focuses on the California physical education content standards for High School Course 1 and Course 2.
Grade Type: Letter Grade

KIN 415 - Teaching Lifelong Physical Activity

Units: 3
When Offered: Spring
This course provides an activity-based approach to acquiring lifelong physical activity knowledge and skills. Emphasis is on learning through teaching, using peers and the classroom to apply appropriate high school physical education subject matter content, teaching methodologies, and evaluation methods. This activity-based course focuses on collaborative learning, practical experience, and structured fieldwork hours. This course is designed to meet California Teacher Credentialing requirements, PETE recommendations, and California physical education content standards for High School Course 1 and Course 2.
Grade Type: Letter Grade
Prerequisite(s): KIN 310

KIN 423 - Organizations and Administration of Physical Education

Units: 3
When Offered: Spring & OPS
A study of possible administrative challenges in departments of physical education as well as departmental organization and facilities use.
Grade Type: Letter Grade

KIN 433 - Sports and Activities Practicum

Units: 3
When Offered: Fall, Spring, Summer
Practical field experience in a professional Kinesiology setting. Students must arrange the field experience under the guidance and approval of the Kinesiology Department Chair.
Grade Type: Letter Grade
Fee: Clinical practicum fee
Prerequisite(s): KIN 101, permission of the Department Chair and Junior, Senior, or Graduate status

KIN 454 - Behavioral Aspects of Sport

Units: 3
When Offered: Fall, Spring, & OPS
A study of the sociological and psychological impact of physical activity on humans. The psychological factors of self-perception, motivation, cooperation, and competition will be examined and used as descriptors to illustrate the idea of sport as an institution of society.
Grade Type: Letter Grade

KIN 473 - Research Methods and Evaluation in Kinesiology

Units: 3
When Offered: Fall, Spring, & OPS
This course provides an introduction to research design that prepares the student to develop relevant questions and hypotheses in kinesiology, and to collect, analyze, and make application of empirical data through scientific writing.
Grade Type: Letter Grade
Prerequisite(s): KIN 383

KIN 480 - Fitness Assessments and Exercise Prescription

Units: 3
When Offered: Fall, Spring, & OPS
Study and practice of concepts and techniques for evaluating physical fitness. Topics include health and medical histories, liability concerns, blood pressure, graded exercise stress testing, ECG recording and basic interpretation, strength assessment, body composition analysis, pulmonary function tests, CHD risk-factor analysis and health risk appraisal.
Grade Type: Letter Grade
Prerequisite(s): KIN 383

KIN 490 - Principles of Conditioning Athletes

Units: 3
When Offered: Fall, Spring, & OPS
A study of the physiological and biomechanical basis of conditioning for different sports. Topics include bioenergetics, specificity of training, periodization, and organization and administration of the strength and conditioning facility.
Grade Type: Letter Grade
Prerequisite(s): KIN 274 and 383

KIN 495 - Functional Movement for Sport Performance

Units: 3
When Offered: As offered
Course focusing on proper body mechanics for physical activity and fitness programming. A review of relevant anatomy and pathology by joint with emphasis on proper body mechanics and various movement screening techniques to discern and correct improper mechanics. Classroom and lab hybrid. Lab experiences focused on developing motion analysis and movement screening skills.
Grade Type: Letter Grade
Prerequisite(s): KIN 274 and 390
Pre- or Co- Requisite(s): KIN 490

LAT 115 - Latin I

Units: 3
When Offered: Fall
This course is the first half of an introduction to Latin based upon ancient authors. In this course the student is introduced to basic forms, structures, vocabulary, and etymologies of Latin and its relationship to English and other modern languages.
Grade Type: Letter Grade

LAT 125 - Latin II

Units: 3
When Offered: Spring
This course is the second half of an introduction to Latin based upon ancient authors. In this course the student is introduced to more advanced forms, structures, vocabulary and etymologies of Latin and its relationship to English and other modern languages.
Grade Type: Letter Grade
Prerequisite(s): LAT 115

LAT 215 - Latin Literature I

Units: 3
When Offered: As offered
This is the first half of the advanced Latin literature sequence. In this course the student masters the more complex points of Latin grammar and prosody and learns to identify the distinctive styles, syntax, and diction of major classical and Medieval Latin authors.
Grade Type: Letter Grade
Prerequisite(s): LAT 125

LAT 225 - Latin Literature II

Units: 3
When Offered: As offered
This is the second half of the advanced Latin literature sequence. In this course the student masters the ability to sight translate classical and post-classical Latin into fluent English and to identify and assess the divergent purposes, beliefs, and ideas of major classical, Medieval, and Renaissance Latin authors.
Grade Type: Letter Grade
Prerequisite(s): LAT 215

LDR 305 - Leadership Seminar

Units: 1
When Offered: Fall, Spring

Students will evaluate a range of topics related to the challenges of leading and developing essential skills to exercise leadership in their personal and professional pursuits.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

LDR 310 - Leadership Theory

Units: 3
When Offered: As offered & OPS
The purpose of this course is to equip students with skills necessary for successful leadership in public, private, and non-governmental organizations. Emphasis is on assessment of personal growth needs and enhancement of administrative skills including communication, decision-making, motivation, leadership styles, and team building. Experiential class work will be utilized in conjunction with classic and current organizational literature so that students can appreciate the bridge linking theory and practice. Students completing this course for credit may not also earn credit for BUS 435 - Leadership in Organizations.
Grade Type: Letter Grade

LDR 330 - Personal Leadership

Units: 3
When Offered: Fall & OPS
This course introduces the student to the concepts of personal leadership and helps identifies the skills and strategies that the student may employ to effectively lead.
Grade Type: Letter Grade

LDR 350 - Communication Principles for Leadership

Units: 3
When Offered: Fall (even years) & OPS
This course provides an analysis of the principles of communication in the workplace. Students will learn basic communication theories, strategies, and processes as they relate to the modern organizational structure. We will be examining the nature and process of communication in modern organizations, including pragmatic implications of organizational communication theories as they relate to understanding organizations, and implementing change strategies. The course will also compare contemporary principles of leadership with the contemporary literature on communications.
Grade Type: Letter Grade

LDR 410 - Ethical and Biblical Principles for Leadership

Units: 3
When Offered: Fall (odd years) & OPS
This course evaluates the principles for practicing ethical judgments and behavior that confront those in leadership positions. Students will evaluate various ethical frameworks and survey the Bible to explore and develop principles and habits for Biblically-based leadership practices. The course will also compare Biblical principles of leadership with the contemporary literature on leadership and ethics.
Grade Type: Letter Grade

LDR 430 - Decision Making and Leadership

Units: 3
When Offered: Spring (even years) & OPS
This course explores various biases, common heuristics, and social dynamics that often lead to faulty decisions and evaluates strategies and tactics to safe guard the decision making process so as to enhance the probability of implementing good decisions. Students will also study the creative process and models for making wise decisions that

optimize personal and collective outcomes.
Grade Type: Letter Grade

LDR 450 - Culture and Leadership

Units: 3
When Offered: Spring (odd years) & OPS
This course deepens the student's understanding of principles of collaboration, modeling positive behavior, and mentorship in relation to diverse groups, communities, and individuals. Students will evaluate various effective strategies for fostering and nurturing diversity best practices. The course will also have students appreciate the differences of individuals and how to capitalize on those differences as strengths.
Grade Type: Letter Grade

LDR 470 - Group and Leadership

Units: 3
When Offered: Fall (even years) & OPS
Effective groups and teams are critical in modern organizations, yet there are often dysfunctional dynamics and processes within the group. This course will provide the student with fundamental concepts relating to group dynamics, group decision making, and interpersonal conflict. Special attention will be paid to diversity in this class. Students will gain a better understanding of dynamics of group interaction in professional and social settings. Understanding the dynamics of small group interaction and having an understanding of some of the techniques for solving conflict and improving communication toward future benefits. This course will provide the platform necessary for the student to engage in accurate communication of ideas which can influence other behavior.
Grade Type: Letter Grade

LDR 491 - Internship

Units: 3
When Offered: Fall, Spring, Summer
Under the supervision of a faculty member and representative from the sponsoring organization, students will utilize the internship to develop and demonstrate the principles and skills introduced in the Leadership Studies courses.
Grade Type: Pass/Fail

LBA 101 - Introduction to the Liberal Arts

Units: 1
When Offered: Fall
This course is designed to prepare students to successfully complete their foundational courses in the study of humanities, including literature, history, Christian Studies, philosophy, and art, as well as in math and science. It considers both philosophical and practical foundations within various liberal arts disciplines, including how quantitative reasoning, moral and aesthetic judgments, and a personal worldview shape interactions with the liberal arts. It also introduces students to basic skills, tools, and resources necessary for academic success in a liberal arts education.
Grade Type: Pass/Fail

LBA 499 - Capstone

Units: 3
When Offered: Spring
The capstone in the liberal arts is designed to enable liberal arts majors, generally in their senior year, to reflect upon, pose, and respond to enduring questions about the human experience-critically, creatively, and contemplatively. Students will design and develop a capstone portfolio and accompanying project that demonstrates a synthesis of their learning across the liberal arts disciplines.
Grade Type: Letter Grade

Prerequisite(s): Permission of the program director
Pre- or Co- Requisite(s): LBA 101

LBS 498 - Capstone Portfolio

Units: 1
When Offered: As offered & OPS
Students will review their personal and professional development based upon their baccalaureate experiences at California Baptist University. Students will evaluate their growth and development through the program, identify their relative strengths and areas for growth, and development a personal development plan. Students will demonstrate critical self-reflection and the ability to make judicious, relevant and insightful applicants and professional judgment from their cumulative undergraduate experience.
Grade Type: Pass/Fail

MKT 313 - Retailing and Merchandising

Units: 3
When Offered: Fall (even years) & OPS
To familiarize students with the decisions involved in running a retail firm and the concepts and principles for making those decisions. Topics of discussion will include retail business planning, site selection, retail promotion strategies, HR management, customer relationship management, supply chain management, customer buying behavior, merchandising, space planning and layout, and store management. While the course focuses on the retail industry including retailers of consumer services, the content of the course is also useful for students interested in working for companies that interface with retailers such as manufacturers of consumer products or for students with a general business interest.
Grade Type: Letter Grade
Prerequisite(s): MKT 333

MKT 323 - Marketing Research

Units: 3
When Offered: Spring & OPS
The emphasis of the course is on improving the skills of conducting marketing research. This course is designed to teach students the fundamentals of the research process including: recognizing the need for marketing research, planning for marketing research, obtaining and collecting the data, analyzing the data, and presenting the research results. This course concerns the use of marketing research as an aid to making marketing decisions. Accordingly, this course is appropriate for both prospective users of research results and prospective marketing researchers. Primary and secondary research will be performed, qualitative and quantitative methods will be utilized as well.
Grade Type: Letter Grade
Prerequisite(s): BUS 315 and MKT 333

MKT 333 - Principles of Marketing

Units: 3
When Offered: Fall, Spring, & OPS
A study of the marketing functions, channels of distribution, selling, advertising, distribution, and marketing management for both retail and industrial businesses.
Grade Type: Letter Grade

MKT 353 - Integrated Marketing Communications

Units: 3
When Offered: Fall & OPS
This course examines the best practices companies use to perform integrated marketing communications (IMC). IMC includes advertising, sales promotion, direct marketing, personal selling, public relations, customer segmentation and

selection, branding, and building customer relationships. Integration of these functions is essential to the success of the marketing strategy of the organization.
Grade Type: Letter Grade
Prerequisite(s): MKT 333

MKT 363 - Social Media and Content Marketing

Units: 3
When Offered: Spring
Students will learn how to use social media and content marketing to communicate an organization's message and engage with customers. Additionally, students will learn how to manage an organization's social media presence.
Grade Type: Letter Grade
Prerequisite(s): MKT 333

MKT 443 - Personal Selling and Sales Management

Units: 3
When Offered: Spring (odd years)
An introduction to the profession of personal selling and sales management. The choice of sales and sales management as a career will be discussed. Topics of interest include: Strategically planning each sales call within a larger account strategy, making the sales call, strengthening communications, responding helpfully to objections, obtaining commitment, and building partnerships. Sales force planning, organizing, management, territory development, selection, compensation, sales force effectiveness, and performance will also be analyzed and discussed.
Grade Type: Letter Grade
Prerequisite(s): MKT 333

MKT 444 - International Marketing

Units: 3
When Offered: Fall
This course focuses on the theoretical and practical aspects of the cultural environment of global markets, assessing global market opportunities and developing and implementing international marketing strategies.
Grade Type: Letter Grade
Prerequisite(s): MKT 333

MKT 458 - Consumer Behavior

Units: 3
When Offered: Fall & OPS
A focus on the individual buyer's role in the marketing system; retail operation and how the needs and wants of the buyers are met in a market-oriented system; importance of product image, brand package influence, and store image in influencing consumer purchases.
Grade Type: Letter Grade
Prerequisite(s): MKT 333

MKT 463 - Marketing Management

Units: 3
When Offered: Spring & OPS
The formulation and implementation of effective marketing management strategies to achieve the creation of a viable marketing plan. Group presentations, case studies and experiential learning assignments will be performed in and out of class.
Grade Type: Letter Grade
Prerequisite(s): MKT 333 and Senior status

MKT 491 - Marketing Internship

Units: 1-3
When Offered: Fall, Spring, Summer
Under faculty supervision, the student will work with an outside organization in the field of marketing.
Grade Type: Letter Grade
Prerequisite(s): MKT 333 and permission of the Dean

MAT 095 - Elementary Algebra

Units: 3
When Offered: Fall, Spring, & OPS
This course is designed to prepare a student who is not ready for college algebra. There is no prerequisite. This course will include instruction in the following areas: The real number system, linear equations and inequalities, linear graphs, exponents and polynomials, and rational expressions. Math placement will be determined by SAT or ACT or math placement test scores.
Grade Type: Pass/Fail

MAT 101 - Orientation to the Discipline

Units: 1
When Offered: Spring
This course is designed to introduce students to the basic skills necessary for academic success in the discipline of Mathematics and to provide students with an overview of professions in which that major may be applied.
Grade Type: Pass/Fail

MAT 115 - Intermediate Algebra

Units: 3
When Offered: Fall, Spring, & OPS
This course satisfies the math competency for the general education requirements. It will include instruction in the following areas: roots and radicals, quadratic equations and inequalities, graphing relations and functions, systems of equations and inequalities, and matrices and determinants.
Grade Type: Letter Grade
Prerequisite(s): MAT 095 or sufficient SAT, ACT or math placement exam scores

MAT 123 - Survey of Mathematics

Units: 3
When Offered: Fall, Spring, & OPS
This is a survey course covering the topics of critical thinking skills, inductive reasoning, problem solving, sets, logic, number theory, algebra, graphs and functions, systems of linear equations and inequalities, euclidean and non-euclidean geometry, groups, finance, probability, and statistics. The course is designed to expand into a variety of areas which students in the arts may find more applicable.
Grade Type: Letter Grade
Prerequisite(s): MAT 095 or sufficient SAT, ACT or math placement exam scores

MAT 125 - Mathematical Concepts and Applications I

Units: 3
When Offered: Fall
This course will include instruction in the following areas: critical thinking, sets, systems of numeration, number theory, the real number system, algebra, graphs, and functions. Students will analyze complex problems, apply logical reasoning techniques learned from the above-mentioned areas, evaluate the truth of mathematical statements, and apply different solution strategies. This course will partially fulfill the requirements for a Liberal Studies waiver.

Grade Type: Letter Grade
Prerequisite(s): MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

MAT 127 - Mathematical Concepts and Applications II

Units: 3
When Offered: Spring
This course will include instruction in the following areas: critical thinking, two and three dimensional geometry, representational systems, methods for determining measurement, statistics, data analysis, and probability. Students will analyze complex problems, apply logical reasoning techniques learned from the above-mentioned areas, evaluate the truth of mathematical statements, and apply different solution strategies.
Grade Type: Letter Grade
Prerequisite(s): MAT 125

MAT 135 - Pre-Calculus

Units: 3
When Offered: Fall, Spring
This course is designed to prepare a student for Calculus I. It will include instruction in the following areas: review of systems of equations and inequalities, functions and their graphs, sequences, induction, counting, probability, trigonometry, analytical geometry, and pre-calculus material.
Grade Type: Letter Grade
Prerequisite(s): MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

MAT 145 - Mathematical Methods in the Natural Sciences

Units: 4
When Offered: Spring
A calculus-based course including an introduction to derivatives and integrals, dimensional analysis, analytical geometry, trigonometry, vectors, experimental error and other topics to provide a mathematical foundation for natural science majors.
Grade Type: Letter Grade
Prerequisite(s): MAT 115, 135, or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

MAT 154 - Statistics for Nursing and Healthcare

Units: 3
When Offered: As offered
An introduction to statistics for Nursing majors that includes an introduction to epidemiology and clinical trials in addition to a study of principles of statistical decision theory, descriptive measurements, probability concepts, random variables, normal distribution, inferential statistics, sampling distributions, confidence intervals, hypothesis testing, chi-squared procedures, linear regression, and the use of computers in statistics.
Grade Type: Letter Grade
Prerequisite(s): MAT 115 or RN-level nursing license.

MAT 200 - Special Topics in Mathematics

Units: 1-3
When Offered: As offered
Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

MAT 245 - Analytical Geometry and Calculus I

Units: 4
When Offered: Fall, Spring
Basic concepts of analytical geometry, limits and derivatives, differentials and rates, integration, definite and indefinite integrals, differentiation of logarithmic and exponential functions.
Grade Type: Letter Grade
Prerequisite(s): MAT 135, 145, EGR 182, or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

MAT 250 - Modeling and Applications of Calculus

Units: 2
When Offered: Spring
The study of symbolic languages, such as Mathematics, Maple, and MATLAB, for the use and application in Calculus and modeling courses.
Grade Type: Letter Grade
Prerequisite(s): MAT 245

MAT 255 - Analytical Geometry and Calculus II

Units: 4
When Offered: Fall, Spring
Continued study and applications of integration: volumes, lengths, surface of revolution; derivatives and integrals involving trigonometric functions, infinite series, expansion of functions, hyperbolic functions, law of the mean, partial fractions, polar coordinates, and conic sections.
Grade Type: Letter Grade
Prerequisite(s): MAT 245

MAT 303 - Linear Algebra with Applications to Differential Equations

Units: 3
When Offered: Fall (even years)
This course is designed to teach students some of the basic computational skills of Linear Algebra in the context of Differential Equations. Students will learn to use the basic operations of matrices, study systems of linear equations and find the determinant, eigenvalues and eigenvectors of a matrix. The student will apply these tools in the qualitative study of solutions to systems of Differential Equations.
Grade Type: Letter Grade
Prerequisite(s): MAT 255

MAT 313 - Mathematical Proof and Structures

Units: 3
When Offered: Fall, Spring
A study of various methods of proofs and mathematical structures covering logic, universal and existential quantifiers, sets, functions, and selected topics in discrete mathematics, linear algebra, abstract algebra, and real analysis. This is a bridge course to abstract mathematics and should be taken prior to or concurrently with courses in linear or abstract algebra, and real or complex analysis.
Grade Type: Letter Grade
Prerequisite(s): MAT 245

MAT 323 - Abstract Algebra I

Units: 3
When Offered: Spring
An introduction to the structure of algebraic systems such as groups, subgroups, cosets, homomorphisms, factor groups, rings and fields.
Grade Type: Letter Grade
Prerequisite(s): MAT 313

MAT 333 - Complex Variables

Units: 3
When Offered: Spring
Structure of complex numbers and their functions, analytic, harmonic, and elementary functions, residue theory, and conformal mapping.
Grade Type: Letter Grade
Prerequisite(s): MAT 313

MAT 342 - Fundamentals of Multivariable Calculus and Differential Equations for Engineers

Units: 3
When Offered: Spring
Students will learn basic concepts of Linear Algebra and multivariable calculus in the context of differential equations. Analytic and numerical methods of solving ordinary differential equations will be discussed. Furthermore, students will be briefly introduced to the qualitative theory of ordinary differential equations. Separation of Variables will be discussed as a method for solving partial differential equations as well as some other methods. Problems discussed in class will have applications in engineering, physics, biology, and chemistry.
Grade Type: Letter Grade
Prerequisite(s): MAT 255 and Pre-Chemical Engineering or Chemical Engineering

MAT 343 - Multivariable Calculus

Units: 4
When Offered: Fall, Spring
Study and applications of vector analysis, partial differentiation, multiple integration, Jacobians, theorems of Green and Stokes, and divergence theorem.
Grade Type: Letter Grade
Prerequisite(s): MAT 255

MAT 353 - Probability and Statistics

Units: 3
When Offered: Fall
A calculus based course covering discrete and continuous distributions, expectations, the normal distribution, the central limit theorem, the binomial distribution, and various topics in statistical theory such as point estimation, hypothesis testing, and linear regression.
Grade Type: Letter Grade
Prerequisite(s): MAT 245

MAT 363 - History of Mathematics and Theory of Numbers

Units: 3
When Offered: Fall (odd years)
A study of the History of Mathematics from ancient to modern times: Elementary topics in number theory, linear congruencies, Fermat and Wilson theorems, quadratic reciprocity laws.

Grade Type: Letter Grade
Pre- or Co- Requisite(s): MAT 313

MAT 399 - Independent Study

Units: 1-3
When Offered: As offered
This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.
Grade Type: Letter Grade

MAT 400 - Special Topics in Mathematics

Units: 1-3
When Offered: As offered
Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

MAT 403 - Linear Algebra

Units: 3
When Offered: Spring
Vector spaces; matrices, rank and systems of linear equations; linear transformation; similarity and diagonalization theorems; eigenvectors and eigenvalues.
Grade Type: Letter Grade
Prerequisite(s): MAT 313

MAT 413 - Differential Equations

Units: 3
When Offered: Fall
Methods of solution of ordinary differential equations with some applications to geometry and physics.
Grade Type: Letter Grade
Prerequisite(s): MAT 255

MAT 423 - Introduction to Topology

Units: 3
When Offered: Fall (even years)
An introduction to general and algebraic topology, concentrating on point-set topology. Topics to be covered include topological spaces, metric spaces, continuous functions, connectedness, and compactness.
Grade Type: Letter Grade
Prerequisite(s): MAT 313

MAT 425 - Applications of Topology

Units: 3
When Offered: Fall (odd years)
This course will be a survey of applications of various topics of point-set topology. Applications to areas of science, technology, and industry will be introduced, which may include chemistry, biochemistry, genetics, cryptography, robotics, and GIS.
Grade Type: Letter Grade
Prerequisite(s): MAT 313

MAT 443 - Introduction to Real Analysis

Units: 3
When Offered: Spring
An introduction to real analysis and topology covering the completeness of the real numbers, sequences, limits, continuity, uniform continuity, Riemann integrability, topology of the real numbers, topological spaces, connectedness, compactness, and metric spaces.
Grade Type: Letter Grade
Prerequisite(s): MAT 313

MAT 453 - Numerical Analysis

Units: 3
When Offered: Fall (odd years)
Solutions of Equations of One Variable, Interpolations and Polynomial Approximation, Numerical Integration and Differentiation, Direct Methods for Solving Linear Systems and Approximation Theory.
Grade Type: Letter Grade
Prerequisite(s): MAT 255

MAT 463 - Fundamental Concepts of Geometry

Units: 3
When Offered: Spring (even years)
An advanced study of concepts of Euclidean geometry and an introduction to non-Euclidean geometry. Theorems and proofs are emphasized.
Grade Type: Letter Grade
Prerequisite(s): MAT 313

MAT 480 - Senior Seminar

Units: 1
When Offered: Fall
This seminar serves as a survey course that covers concepts and theory of calculus, linear algebra, abstract algebra, number theory, analysis, and topology. Conceptual problems will be discussed and assigned to improve problem-solving skills.
Grade Type: Letter Grade
Prerequisite(s): MAT 313 and Senior status

MAT 483 - Abstract Algebra II

Units: 3
When Offered: Fall (odd years)
This course is a continuation of Abstract Algebra and will include ideals and factor rings, extension fields, Isomorphism and Sylow Theorems, free groups, factorization, automorphisms, Galois Theory, and an introduction to Homology theory.
Grade Type: Letter Grade
Prerequisite(s): MAT 323

MAT 490 - Senior Research in Mathematics

Units: 1-4
When Offered: Fall, Spring
The focus of this class is an independent research project that the student undertakes under the direction of a faculty member who acts as a research advisor. Content varies from year to year and is determined by both instructor's and students' interests.

Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade
Prerequisite(s): MAT 313 and permission of the Department Chair

MAT 499 - Capstone

Units: 4
When Offered: Fall, Spring
The course is designed to be a culminating experience for senior students who are preparing to teach mathematics at the junior/senior high school level. The course provides students an opportunity to reflect on the critical assignments that have been completed throughout their coursework and relate these lessons to the career of teaching.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

MSL 100 - Leadership Laboratory

Units: 1
When Offered: Fall, Spring
Practicum in those skills taught in the classroom during other military science classes in the semester. To include Platoon Level Operations, such as patrolling, situational training exercise, map reading, land navigation, rappelling and weapons qualification. Some training is conducted on weekends. This course is only open to enrolled Army ROTC cadets. The course must be taken each semester the student is enrolled in the Military Science program.
Grade Type: Letter Grade

MSL 101 - Introduction to the Army and Critical Thinking

Units: 1
When Offered: Fall
This course introduces students to the personal challenges and competencies that are critical for effective leadership and communication. Students will learn how the personal development of life skills such as cultural understanding, goal setting, time management, stress management, and comprehensive fitness relate to leadership, officership, and the Army profession. During the course students will learn the structure of the ROTC Basic Course program, Fall and Spring Leadership Labs, and Cadet Initial Entry Training (CIET.)
Grade Type: Letter Grade

MSL 102 - Introduction to the Profession of Arms

Units: 1
When Offered: Spring
This course introduces students to the professional challenges and competencies that are needed for effective execution of the profession of arms and Army communication. Through this course, students will learn how Army ethics and values shape the Army and the specific ways that these ethics are inculcated into Army culture.
Grade Type: Letter Grade

MSL 201 - Leadership and Decision Making

Units: 2
When Offered: Fall
Cadets will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. Cadets will be required to demonstrate writing skills and present information briefings as preparation for development in becoming a successful future officer.
Grade Type: Letter Grade
Prerequisite(s): ROTC Cadet

MSL 202 - Army Doctrine and Team Development

Units: 2
When Offered: Spring
This course primarily is drawn from the Army Profession and Team Work Army Learning Areas (ALA's). Cadets will study, practice, and apply the fundamentals of the Leadership, Officer Skills, Army Values and Ethics, Personal Development, and Tactics at the small unit level.
Grade Type: Letter Grade
Prerequisite(s): ROTC Cadet

MSL 301 - Training Management and the Warfighting Functions

Units: 3
When Offered: Fall
Cadets will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level with a focus on training management and warfighting functions. At the conclusion of this course, cadets will be capable of planning, coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom practical exercise (PE), a Leadership Lab, or during a Leader Training Exercise (LTX). Successful completion of this course will help prepare cadets for the ROTC Cadet Leader Course (CLC), which they will attend in the summer at Fort Knox, KY.
Grade Type: Letter Grade
Prerequisite(s): ROTC Cadet

MSL 302 - Applied Leadership in Small Unit Operations

Units: 3
When Offered: Spring
Building on knowledge and skills learned in prior courses, cadets will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level with a focus on applied leadership in small unit operations. At the conclusion of this course, cadets will be capable of planning, coordinating, navigating, motivating and leading a squad and platoon in the execution of a mission during a classroom practical exercise, a Leadership Lab, or during a Leader Training Exercise (LTX). Successful completion of this course will help prepare cadets for the ROTC Cadet Leader Course (CLC), which they will attend in the summer at Fort Knox, KY.
Grade Type: Letter Grade
Prerequisite(s): ROTC Cadet

MSL 401 - The Army Officer

Units: 3
When Offered: Fall
Cadets will study, practice, develop, and apply critical thinking skills pertaining to Army leadership, officer skills, Army Values and ethics, personal development, and small unit tactics at platoon level. Cadets will be assessed on the execution of a missions during a classroom practical exercise (PE), Leadership Lab, or during a Leader Training Exercise (LTX). At the conclusion of this course, Cadets will be able to plan, coordinate, navigate, motivate and lead a platoon in future operational environments. Successful completion of this course will assist in preparing Cadets for their BOLC B course and is a mandatory requirement for commissioning.
Grade Type: Letter Grade
Prerequisite(s): ROTC Cadet

MSL 402 - Company Grade Leadership

Units: 3
When Offered: Spring
Cadets will study, practice, develop, and apply critical thinking skills pertaining to Army leadership, officer skills, Army Values and ethics, personal development, and small unit tactics at platoon level. Cadets will be assessed on the execution of a mission during a classroom practical exercise (PE), Leadership Lab, or during a Leader Training Exercise (LTX), as well as, completing a Capstone Exercise. For the Capstone Exercise, Cadets are required to

complete an Oral Practicum demonstrating knowledge of the 20 Army Warfighting Challenges (AWFC) covered throughout the course. Successful completion of this course will assist in preparing Cadets for their BOLC B course and is a mandatory requirement for commissioning.
Grade Type: Letter Grade
Prerequisite(s): ROTC Cadet

MSL 451 - Seminar in Military History

Units: 3
When Offered: Spring
The course is designed to enable a student with no prior military or cadet experience to quickly learn the importance of studying military history, conduct critical analysis, and identify patterns that occur in a study of history from the Civil War through the present. The course introduction provides an analytical framework for applying critical thinking skills to the study of military operations within each time period and provides a common language to use during the class. Students will demonstrate learning through classroom participation, short point papers, an in-class presentation and two longer analytical papers. This course is NOT about learning names, dates, and places. Rather, this course is designed to interest students in the study of American military history from the Civil War period to the present. Critical thinking about "the whys" things happened is the focus. Reading the assignments and participating in classroom discussions will facilitate student interest in further historical research on topic of their choosing. For Army ROTC cadets, this course satisfies the Cadet Command military history and pre-commissioning requirement.
Grade Type: Letter Grade

MUS 010 - Beginning Piano for Non-Music Majors

Units: 1
When Offered: Fall
Group instruction in keyboard fundamentals for the non-music major with little or no keyboard experience, focusing on keyboard orientation, rhythm and pitch reading, selected scales and chords, and performance of elementary keyboard literature.
Repeatable: May be repeated one (1) time for credit
Grade Type: Letter Grade

MUS 012 - Class Piano I

Units: 1
When Offered: Fall, Spring
Designed for the music major whose primary instrument is other than piano. The course material will focus on the rudiments of piano playing, including acquisition of the Technical Skills (Items 1-10) of Piano Proficiency (i.e. scales, arpeggios, and chords).
Repeatable: May be repeated three (3) times for credit
Grade Type: Letter Grade
Prerequisite(s): Declared Music major

MUS 014 - Class Guitar

Units: 1
When Offered: Fall, Spring
Group instruction in the fundamentals of guitar.
Repeatable: May be repeated for credit
Grade Type: Letter Grade

MUS 015 - Class Piano for Worship Arts I

Units: 1
When Offered: Fall, Spring

Group instruction of fundamental piano skills to be used in live worship service settings. Focus on scales, basic chord structures, improvisation, chord chart realization, and accompaniment skills.
Grade Type: Letter Grade

MUS 016 - Rhythm Instruments I

Units: 1
When Offered: Fall
Beginning group instruction on drum set as applied to commercial music studies. Students with a drum set as their primary instrument may substitute one unit of voice.
Grade Type: Letter Grade

MUS 017 - Class Guitar for Worship Arts I

Units: 1
When Offered: Fall
Introduces students to foundational elements of guitar study. Students will learn how to play chords in open positions, major and pentatonic scales in all keys, note reading, basics of fingerstyle and plectrum technique, improvisation, and ensemble playing. Special emphasis will be placed on worship based applications of guitar playing.
Repeatable: May be repeated for credit
Grade Type: Letter Grade

MUS 020 - Intermediate Piano for Non-Music Majors

Units: 1
When Offered: Spring
A continuation of Beginning Piano for Non-Music Majors that develops skills gained the previous semester. Work with additional keys, harmonization, and performance of late elementary keyboard literature.
Repeatable: May be repeated one (1) time for credit
Grade Type: Letter Grade
Prerequisite(s): MUS 010 or permission of the Dean

MUS 022 - Class Piano II

Units: 1
When Offered: Fall, Spring
Designed for the music major whose primary instrument is other than piano. The course material will focus primarily on the Functional Skills (Items 11-15) of Piano Proficiency (i.e. solo repertoire, harmonization, transposition, score-reading, and sight-reading) with review of the Technical Skills.
Repeatable: May be repeated three (3) times for credit
Grade Type: Letter Grade
Prerequisite(s): MUS 012 or permission of the Professor

MUS 025 - Class Piano for Worship Arts II

Units: 1
When Offered: Fall, Spring
Group instruction of intermediate piano skills to be used in live worship service settings. Content will continue from MUS 015 - Class Piano for Worship Arts I and focus on more advanced chord structures, improvisation, chord chart realization, and accompaniment skills.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Prerequisite(s): MUS 015

MUS 026 - Rhythm Instruments II

Units: 1
When Offered: Spring
Beginning group instruction on bass and guitar as applied to commercial music studies. Students with guitar or bass as their primary instrument may substitute one unit of voice.
Grade Type: Letter Grade

MUS 027 - Class Guitar for Worship Arts II

Units: 1
When Offered: Spring
Expounds upon foundational elements in MUS 017 - Class Guitar for Worship Arts I by introducing intermediate guitar skills and worship applications. Students will learn how to play closed chord forms, including inversions and extended chords, major and pentatonic scales in all keys, note reading beyond first position, applications of fingerstyle and plectrum technique in worship, improvisation, and ensemble playing. Special emphasis will be placed on worship-based applications of guitar playing.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Prerequisite(s): MUS 017

MUS 046 - Popular Music Ensemble: 50s-70s

Units: 0-1
When Offered: Fall, Spring
Studies of style and performance in popular music genres in an ensemble setting. Students will rehearse and perform music of various decades, 50s through 70s. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade

MUS 047 - Popular Music Ensemble: 80s-Contemporary

Units: 0-1
When Offered: Fall, Spring
Studies of style and performance in popular music genres in an ensemble setting. Students will rehearse and perform music of various decades, 80s through contemporary. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade

MUS 050 - Performance Forum

Units: 0
When Offered: Fall, Spring
Required of all Bachelor of Music majors for each semester in residence. Performance Forum is designed to support the Mission Statement of the School of Music, "...to inspire students to the highest standards of musical craft and personal character." Meets for one hour per week on Friday mornings. The time will be devoted to student recitals, faculty recitals, master classes, music major information sessions, and community-building and character training by the Dean. Grades will be based on attendance.
Grade Type: Letter Grade

MUS 054 - Worship Forum

Units: 1
When Offered: Fall, Spring
While building community and culture for Worship Arts and Ministry students, this class focuses on the methodology

and theology of effective corporate worship leadership, coaching students in platform presentation, rehearsing music ensembles, recruiting teams, and reaching worshipers, in the context of their local church internship.
Repeatable: May be repeated for a maximum of four (4) units
Grade Type: Letter Grade

MUS 060 - Lancer Pep Band

Units: 0-1
When Offered: Fall, Spring
The Lancer Pep Band is an integral part of CBU's Men's and Women's Basketball games, working with the Cheerleaders and Crazies to provide an unrivaled, high-energy game environment and home court advantage. The band is open to students of any major by audition. Lancer Pep Band members receive a music scholarship and additional compensation from the Athletic Department for every game performance. Does NOT meet music major or minor ensemble requirement.
Repeatable: May be repeated for a maximum of four (4) units
Grade Type: Letter Grade

MUS 067 - Symphonic Band

Units: 0-1
When Offered: Fall, Spring
An inclusive concert band designed to provide instrumental experience and growth through rehearsal and public performance. Open to qualified students by audition or instructor's consent. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Concurrent Requisite(s): MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087 , 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 068 - Camerata

Units: 0-1
When Offered: Fall, Spring
Camerata is the most advanced, select mixed (SATB) choral ensemble open by audition from all academic disciplines. Repertoire for this ensemble focuses on music composed specifically for advanced level chamber choirs. Additionally, Camerata will join other choirs and Symphony Orchestra to perform extended works composed for large musical forces. Rehearsals seek to promote vocal development, musicianship training, team work, artistic espression, and spiritual reflection. Camerata is also a service organization which performs concerts for the California Baptist University community, in the local area, and in outreach and recruitment events. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): Audition (permission of the professor)

MUS 069 - Worship Collective

Units: 0-1
When Offered: Fall, Spring
Worship Collective is a mixed-voice worship-leading choral ensemble open by audition to students from all academic disciplines. Repertoire for this ensemble focuses on music designed for corporate worship leadership. This group regularly leads worship in CBU Chapel and other ministry venues. Students must be enrolled for at least one ensemble for full credit.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade

MUS 071 - Voice Practicum

Units: 1-2
When Offered: Fall, Spring
Develop the ability to sing and perform in a CBU vocal ensemble by improving technique, musicianship, and expression. The repertoire used may include the student's large ensemble music as needed, with a preference for solo literature of increasing difficulty, in order to develop the singer's ability. Students must arrange instruction time with the faculty member in-charge, during the first week of classes. Twelve (12) half-hour lessons will be offered per unit.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee

MUS 072 - Piano Practicum

Units: 1-2
When Offered: Fall, Spring
Private piano instruction for the non-music major. Twelve (12) half-hour lessons will be offered per unit. This course does not require a jury exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee

MUS 079 - Instrumental Practicum

Units: 1-2
When Offered: Fall, Spring
Private instruction for instrumentalists and pianists is offered with material and performance of increasing difficulty, as the student develops. Students must arrange instruction time with the full-time faculty member in-charge, during the first week of classes. Twelve (12) half-hour lessons will be offered per unit. Enrollment not open to students seeking a Music degree, major, or minor.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee

MUS 080 - Private Instruction

Units: 1-2
When Offered: As offered
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 081 - Private Instruction: Voice

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.

Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 082 - Private Instruction: Piano

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 083 - Private Instruction: Organ

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam. Prior formal piano training and music reading ability required to be successful in course.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 084 - Private Instruction: Woodwinds

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 085 - Private Instruction: Brass

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 086 - Private Instruction: Strings

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 087 - Private Instruction: Percussion

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 088 - Private Instruction: Guitar

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 089 - Private Instruction: Accompanying

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. A weekly meeting of accompanying majors which will explore accompanying, vocal, and instrumental coaching techniques, emphasizing the interaction between partners and the musical style and performance problems in a wide range of instrumental and vocal repertory and style. Students are expected to perform in Student Recitals and a Jury Exam. Twelve (12) half-hour lessons will be offered per unit.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): Declared Music major or minor

MUS 090 - University Choir and Orchestra

Units: 0-1
When Offered: Fall, Spring
University Choir and Orchestra is open by audition to all interested students. The group will rehearse and perform a variety of music. A concert tour at the end of the school year is required. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee

MUS 091 - Magnolia Singers

Units: 0-1
When Offered: Fall, Spring
This choral ensemble will rehearse and perform a variety of music for soprano/alto voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Concurrent Requisite(s): MUS 069, 090, or 489

MUS 092 - Lancer Chorus

Units: 0-1
When Offered: Fall, Spring
This choral ensemble will rehearse and perform a variety of music for tenor/bass voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Concurrent Requisite(s): MUS 069, 090, or 489

MUS 093 - Chamber Singers

Units: 0-1
When Offered: Fall, Spring
Chamber Singers gives experience in preparation and performance of recognized and new choral works as well as masterworks of Western music written for small choral ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade

MUS 094 - Rhapsody

Units: 0-1
When Offered: Fall, Spring
This choral ensemble will rehearse and perform a variety of music for soprano/alto voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Concurrent Requisite(s): MUS 069, 090, or 489

MUS 095 - Chamber Ensemble

Units: 0-1
When Offered: Fall, Spring
Chamber Ensemble provides opportunities for preparation and performance of small ensemble repertoire. Ensembles rehearse weekly, are provided coaching, and present performances of the music studied. The course is open to all music majors and to non-music majors by instructor permission. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Concurrent Requisite(s): MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 096 - Jazz Ensemble

Units: 0-1
When Offered: Fall, Spring
Jazz Ensemble provides musicians with opportunities to learn a variety of jazz styles in a "big band" setting, as well as to enhance individual improvisational skills. This course also provides practical experience through rehearsals and performances. It is open to qualified students by audition or instructor's consent. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Concurrent Requisite(s): MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 097 - Wind Ensemble

Units: 0-1
When Offered: Fall, Spring
A select concert band comprised of the finest woodwind, brass, and percussion students at the University, performing both standard and emerging repertoire for winds at a high artistic level. Open to qualified students by audition. Members of the ensemble are expected to demonstrate outstanding skill and musicianship through individual practice with refinement in ensemble rehearsal. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Concurrent Requisite(s): MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 098 - Concert Choir

Units: 0-1
When Offered: Fall, Spring
The Concert Choir gives a public performance of a diverse cross-section of choral art music, including major works, each semester. This course is offered for 0 units in the Fall and 1 unit in the Spring. Enrollment is required for all Bachelor of Music majors with a vocal or piano emphasis, as well as scholarship recipients as defined by the School of Music.
Repeatable: May be repeated twelve (12) times for a maximum of six (6) units
Grade Type: Letter Grade

MUS 099 - Symphony Orchestra

Units: 0-1
When Offered: Fall, Spring
Symphony Orchestra is open by audition to all qualified students. The group will rehearse and perform the finest examples of orchestral literature, ranging from the 18th century to the present. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Concurrent Requisite(s): MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 105 - Introduction to Commercial Music Studies

Units: 2
When Offered: Fall
Overview of the diverse industry of commercial music. Students will explore trends, vocations, and markets through lectures and insights delivered by industry professionals.
Grade Type: Letter Grade

MUS 114 - Music Theory I

Units: 3
When Offered: Fall
A review of music fundamentals, intensive study of basic concepts of music theory for the music major, introduction to music notation software. Concert attendance requirement.
Grade Type: Letter Grade
Concurrent Requisite(s): MUS 115

MUS 115 - Musicianship Lab I

Units: 1
When Offered: Fall
Introductory experiences in sight-singing and ear-training.
Grade Type: Letter Grade
Concurrent Requisite(s): MUS 114

MUS 116 - Opera Theater Workshop

Units: 1-3
When Offered: Fall
The study, preparation, and performance of operatic and musical theater scenes and roles, with specific focus on the integration of music, acting, and staging. Open to music majors and non-music majors by audition.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Concurrent Requisite(s): MUS 071, 072, 081, 082, 461, or 462

MUS 120 - Introduction to Music Ministry

Units: 1
When Offered: Fall
Thought and discussion on the true heart of a worship leader. Special emphasis will be given to the call and role of a worship leader and the practical elements of music ministry. This course is designed to introduce students to the Worship Arts and Ministry program and provide the foundational elements of worship, which will prepare them for academic and career success.
Grade Type: Letter Grade

MUS 124 - Music Theory II

Units: 3
When Offered: Spring
Development of skills in analyzing and writing music involving diatonic voice leading principles and harmonic progressions. Examples are drawn from art, sacred and popular music. Concert attendance requirement.
Grade Type: Letter Grade
Prerequisite(s): MUS 114
Concurrent Requisite(s): MUS 125

MUS 125 - Musicianship Lab II

Units: 1
When Offered: Spring
Continued development of aural skills and introduction to keyboard harmony and improvisation.
Grade Type: Letter Grade
Prerequisite(s): MUS 115
Concurrent Requisite(s): MUS 124

MUS 182 - Survey of Live AVL Technology

Units: 3
When Offered: Spring
Students will receive a comprehensive overview of audio, video, and lighting technologies used in venues both sacred and secular. Coursework will include terminology, historical perspectives, trouble shooting, and basic operation.
Grade Type: Letter Grade

MUS 200 - Special Topics in Music

Units: 1-3
When Offered: As offered
An examination of specific areas of Music.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

MUS 202 - Music in Global Cultures

Units: 2
When Offered: Fall, Spring
Emphasis on musical instruments, and their significance in a culture's folklore, religion and history; fundamental elements of music and how they vary in different traditions; the effects of cultural influences such as gender and ethnically on the perception, interpretations and performance of music; forces of nationalism, acculturation, and westernization and their effect on musical traditions.
Grade Type: Letter Grade

MUS 205 - Music Development for the Classroom Teacher

Units: 2
When Offered: Fall, Spring
Designed for the non-music major who plans to teach in the elementary classroom. Coursework includes fundamentals of music, basic musical knowledge and performing skills, and state-adopted music materials. Meets the Elementary Subject Matter Program Requirement.
Grade Type: Letter Grade

MUS 214 - Music Theory III

Units: 3
When Offered: Fall
Advanced writing and analysis of music involving chromatic and extended harmonies, and an introduction to 16th century polyphony and 18th century counterpoint. Examples are drawn from art, sacred and popular music.
Grade Type: Letter Grade
Prerequisite(s): MUS 124
Concurrent Requisite(s): MUS 215

MUS 215 - Musicianship Lab III

Units: 1
When Offered: Fall
Advanced training in ear-training, sight-singing and keyboard harmony involving chromatic exercises.
Grade Type: Letter Grade
Prerequisite(s): MUS 125
Concurrent Requisite(s): MUS 214

MUS 216 - Opera Theater Production

Units: 1-3
When Offered: Spring
Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Open to music majors and non-music majors by audition.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Concurrent Requisite(s): MUS 071, 072, 081, 082, 461, or 462

MUS 217 - Critical Listening for Music Production

Units: 1
When Offered: Spring
Study of sound in music production including identification and manipulation, and the development of specific listening skills necessary for studio recording.
Grade Type: Letter Grade

MUS 221 - Music in Worship

Units: 3
When Offered: Fall, Spring
A survey of the history and practice of the use of music in worship services. Emphasis is given to the development of both liturgical and non-liturgical forms of worship. Students will be involved in learning effective worship planning as they study the role of the minister, director of music, and organist.
Grade Type: Letter Grade

MUS 224 - Music Theory IV

Units: 3
When Offered: Spring
Writing and analysis of music since 1900. Focus on contemporary harmonic practice, influence of art and popular music. Concert attendance requirement.
Grade Type: Letter Grade
Prerequisite(s): MUS 214
Concurrent Requisite(s): MUS 225

MUS 225 - Musicianship Lab IV

Units: 1
When Offered: Spring
Advanced work in ear-training and sight-singing.
Grade Type: Letter Grade
Prerequisite(s): MUS 215
Concurrent Requisite(s): MUS 224

MUS 226 - Opera Workshop

Units: 1
When Offered: As offered
This course involves the performance of operatic repertoire and the study of the integration of music, acting, and staging. Open to music and non-music majors by audition.
Grade Type: Letter Grade

MUS 230 - Service Playing

Units: 1
When Offered: As offered
Focus on keyboard skills which are essential for the church service. Techniques of hymn-playing, transposition, modulation, improvisation, sight-reading, and solo/anthem accompaniment will be addressed. Course offered as an Independent Study. Service Playing does NOT fulfill the MUS 080 requirement for the major or minor.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Prerequisite(s): MUS 124 and 125

MUS 236 - Music Entrepreneurship

Units: 3
When Offered: Spring
Introduction to theories, fundamentals, and practices of entrepreneurship and small business as applied to musicians. Course will cover planning, finance, copyright and law as applied to music business, merchandise, licensing, digital rights, royalty management, and endorsements.
Grade Type: Letter Grade

MUS 246 - Music Marketing

Units: 3
When Offered: Spring
Overview of marketing fundamentals, theories, and applications as applied to musicians. Students will explore advertising, social media marketing, strategic marketing planning, international marketing, and other topics related to contemporary musicians and music business.
Grade Type: Letter Grade

MUS 253 - Introduction to Music Composition

Units: 3
When Offered: Spring
Composing for a variety of instruments and/or voices. Intended as an introduction to various techniques and styles of composition and particular concerns of each.
Grade Type: Letter Grade
Prerequisite(s): MUS 214 and 215

MUS 256 - Basics of Accompanying

Units: 2
When Offered: Spring (odd years)
Introduction to piano accompanying with emphasis on basic skills needed to accompany solo voice, choral singing, congregational singing, solo instruments, chamber music, and musicals.
Grade Type: Letter Grade
Prerequisite(s): MUS 022, and either MUS 082 or 462

MUS 282 - Music Technology

Units: 2
When Offered: Fall, Spring
Introduction to a broad perspective of the many ways musicians use computers. Emphasis on historic milestones, current issues, and practical skill in using software and hardware in music technology.
Grade Type: Letter Grade
Prerequisite(s): Declared music major, minor, or concentration

MUS 283 - Electronic Music

Units: 2
When Offered: Spring (even years)
This course is an introductory course in electronic music and sound design. It covers principles of sound and exposes students to a variety of sound design software and synthesizers.
Grade Type: Letter Grade
Prerequisite(s): MUS 282

MUS 301 - Survey of Music History

Units: 3
When Offered: Fall
This course is a study of the development of musical styles and idioms in the context of selected historical periods and their connection with the cultural evolution of Western civilization.
Grade Type: Letter Grade

MUS 304 - Craft of Ministry I

Units: 3
When Offered: Fall
This course is designed to explore the craft and heart of ministry in the church. It will equip future worship leaders/pastors with the practical, ministerial, and management skills needed to build, organize, and manage a thriving multi-dimensional, biblically based, worship ministry in the context of the local church worldwide.
Grade Type: Letter Grade

MUS 305 - Survey of Popular Song

Units: 2
When Offered: Fall
Exploration of popular song in the 20th and 21st century such as the Great American Songbook and Broadway contemporary song, and their historical and cultural significance. Emphasis placed on lyric and melodic writing as well as major songwriters.
Grade Type: Letter Grade

MUS 306 - History of Popular Music

Units: 3
When Offered: Spring

Survey of the history and development of popular music in the 20th and 21st centuries. Emphasis is placed on recorded music history and the socio-musical aspects of music.
Grade Type: Letter Grade

MUS 308 - History of Jazz

Units: 3
When Offered: Spring
The course provides the students with an appreciation and understanding of the cultural history of Jazz. Through critical listening students will learn to identify the various styles and performers associated with the traditions of Jazz.
Grade Type: Letter Grade

MUS 309 - History of Film Music

Units: 3
When Offered: As offered
This course will examine film music, primarily American, from its origins in the "silent" film era, through the Golden Age of Hollywood, to the present day. An emphasis will be placed upon the study of individual composers and their contributions to the genre. In the belief that "music is a mirror of the society that created it," historical trends of the 20th and 21st century will also be examined.
Grade Type: Letter Grade

MUS 311 - Form and Analysis

Units: 2
When Offered: Fall
An exploration of the methods of organizing music. Study focuses on traditional homophonic forms such as variation, rondo, sonata, symphony, and popular song.
Grade Type: Letter Grade
Prerequisite(s): MUS 224 and 225

MUS 312 - Introduction to Conducting

Units: 2
When Offered: Fall
Basic conducting skills, principles, and rehearsal techniques for choral and instrumental music. Observations of choral and instrumental ensemble rehearsals.
Grade Type: Letter Grade
Prerequisite(s): MUS 214

MUS 313 - Music History I

Units: 2
When Offered: Fall
A general survey course of the history of Western European music and of selected non-Western cultures. Includes lectures, readings, and a research paper. Ancient through Renaissance.
Grade Type: Letter Grade
Prerequisite(s): MUS 124 and 125

MUS 316 - Opera Theater Workshop

Units: 1-3
When Offered: Fall
The study, preparation, and performance of operatic and musical theater scenes and roles, with specific focus on the integration of music, acting, and staging. Open to music majors and non-music majors by audition.

Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 116, 216, 427, 461, or 462
Concurrent Requisite(s): MUS 071, 072, 081, 082, 461, or 462

MUS 323 - Music History II

Units: 3
When Offered: Spring
Following the scope and format of the music history courses, this course is a general survey of musical styles and history of the Baroque and Classical periods.
Grade Type: Letter Grade
Prerequisite(s): MUS 124 and 125

MUS 324 - Music History III

Units: 3
When Offered: Fall
Following the scope and format of the music history courses, this course is a general survey of musical styles and history of the Baroque and Classical periods, with emphasis on the Romantic period.
Grade Type: Letter Grade
Prerequisite(s): MUS 124 and MUS 125

MUS 325 - Music History IV

Units: 2
When Offered: Spring
Course content provides a continuation of Music History III with emphasis on the 20th century period. American music and implications of recent developments, including electronic and experimental music, are also included.
Grade Type: Letter Grade
Prerequisite(s): MUS 124 and 125

MUS 326 - Commercial Arranging I

Units: 2
When Offered: Spring
Instruction in arranging for vocal and rhythm section in popular music genres.
Grade Type: Letter Grade

MUS 332 - Psalms, Hymns, and Spiritual Songs

Units: 2
When Offered: Spring
An exploration of the biblical view of music and theology of corporate singing; focusing on how each should affect the twenty-first century Church. Special emphasis given to the Psalms and Christian hymnody, including contemporary hymns.
Grade Type: Letter Grade

MUS 333 - Song Literature

Units: 3
When Offered: Spring (odd years)
A survey of literature for solo voice from the Baroque to the Twentieth Century. Analysis of scores through recordings and live performances.

Grade Type: Letter Grade
Prerequisite(s): MUS 323

MUS 334 - Piano Literature I

Units: 2
When Offered: Fall (odd years)
A survey of the piano literature from the Baroque period through the end of the Classical Period. Stylistic analysis of individual works through recordings and live performances.
Grade Type: Letter Grade
Fee: Additional instruction fee
Prerequisite(s): MUS 323

MUS 335 - Piano Literature II

Units: 2
When Offered: Spring (even years)
A survey of the piano literature of the Romantic, Impressionistic, and Contemporary periods. Stylistic analysis of individual works through recordings and live performances.
Grade Type: Letter Grade
Fee: Additional instruction fee
Prerequisite(s): MUS 334

MUS 336 - Commercial Arranging II

Units: 2
When Offered: Fall
Instruction in arranging for rhythm section and various instrumental combinations such as strings, wind, and brass in popular music genres.
Grade Type: Letter Grade
Prerequisite(s): MUS 326

MUS 337 - Audio Signal Processing

Units: 3
When Offered: Fall, Spring
Study of the theory, practice, and equipment of digital and analog audio signal processing including temporal (ex. reverb, chorus, delay), spectral (equalization, filtering), and dynamic (compressor, limiters, expanders) processing.
Grade Type: Letter Grade
Prerequisite(s): MUS 387

MUS 341 - Junior Recital

Units: 0
When Offered: Fall, Spring
Music majors in the Performance areas may elect to enroll in MUS 341 and present a concert or half recital of 20-30 minutes during their junior year. Students will perform selections from their Junior Recital repertoire in this class setting, and will receive constructive critique from the instructor and classmates. Permission to enroll will be given only after attaining the appropriate Performance Level of 4 and passing all Piano Proficiency skills.
Grade Type: Letter Grade

MUS 344 - Choral Literature

Units: 3
When Offered: Spring

Survey of choral literature from a historical and educative perspective. Emphasis is placed on graded literature appropriate for use in secondary education.
Grade Type: Letter Grade
Prerequisite(s): MUS 405

MUS 345 - Orchestral and Band Literature

Units: 3
When Offered: Spring
Survey of orchestral and band literature from a historical and educative perspective. Emphasis is placed on graded literature appropriate for use in secondary education.
Grade Type: Letter Grade
Prerequisite(s): MUS 405

MUS 346 - Repertoire for Accompanists

Units: 3
When Offered: Fall (odd years)
A historic survey of the song, opera, and instrumental literature from approximately 1600 through the 20th century. Includes stylistic analysis of individual works through recordings and live performances.
Grade Type: Letter Grade
Fee: Additional instruction fee

MUS 347 - Music Production I

Units: 3
When Offered: Fall
Course explores studio music project creation, implementation, and delivery of product. Students will learn how to develop the overall scope of a recording project including defining project goals, selection of musical material and performers, technical resources, and budget to final product creation.
Grade Type: Letter Grade
Prerequisite(s): MUS 386

MUS 354 - Private Lessons in Composition

Units: 1-2
When Offered: Fall, Spring
This course, a continuation of MUS 253, is intended to provide students individual instruction in music composition. Students compose works in preparation for their senior composition recital.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 253

MUS 355 - Private Lessons in Songwriting

Units: 1-2
When Offered: Fall, Spring
Applied instruction in the fundamentals of songwriting with emphasis placed on melodic writing, structure, "hooks," and text setting.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 253

MUS 356 - Commercial Instrumental or Vocal Project I

Units: 1
When Offered: Spring
Students will complete a 30-minute performance or project related to their area of studies in commercial music performance. Selection of material and performance medium will be selected in coordination with the student's applied instructor.
Grade Type: Letter Grade
Prerequisite(s): Junior status

MUS 357 - Music Production II

Units: 3
When Offered: Spring
Study of the business and creative aspects of music production. Emphasis is placed on project development and tracking from demo to final product, creative and aesthetic considerations, assessing needs of artist, song selection and analysis, and artistic development and creative vision.
Grade Type: Letter Grade
Prerequisite(s): MUS 347

MUS 360 - Theology, History, and Practice of Worship

Units: 3
When Offered: Fall, Spring
An examination of biblical text and the history of worship in the church in order to develop a biblical theology of worship and its application in the local church. Students will learn about the development and reforms of liturgical practices and biblical foundations for historical and present-day worship applications.
Grade Type: Letter Grade

MUS 364 - Songwriting and Commercial Production

Units: 3
When Offered: Fall
In this course students will experience the full creative process of writing a song, arranging it, making a demo, and creating a full studio production. Focusing on foundational recording and production techniques, this class will also highlight topics of music copyright, licensing, and publishing.
Grade Type: Letter Grade
Prerequisite(s): MUS 282

MUS 366 - Live Sound Techniques and Applications

Units: 3
When Offered: Fall
Study of equipment and design in sound related to concert and live performance applications. Additional training on operation, mixing, equalization, and monitor mixing.
Grade Type: Letter Grade
Practicum: Practicum hours required

MUS 367 - Contemporary Trends in Music Engineering

Units: 3
When Offered: Fall, Spring
Exploration of current technological developments and applications in sound recording, editing, manipulation, and distribution.

Grade Type: Letter Grade
Prerequisite(s): MUS 387

MUS 370 - Worship Technology

Units: 3
When Offered: Spring
Worship Technology covers the various skills needed for the technical aspects of modern church worship service. Included in the course will be techniques on lighting, sound, multi-media, and emerging technologies that will enhance corporate worship. The student will learn the various skills needed for these areas as well as the ability to communicate with professionals in the technical field.
Grade Type: Letter Grade

MUS 372 - Counterpoint

Units: 2
When Offered: Spring
Continued study of composers' methods of organizing music. Focuses on analysis of music and writing music using contrapuntal techniques. Emphasis on forms of Baroque era and their current application.
Grade Type: Letter Grade
Prerequisite(s): MUS 224 and 225

MUS 376 - Performance Styles for Accompanists

Units: 2
When Offered: Spring (even years)
Introduction to performance practice for accompanists with emphasis on stylistic playing. Accompaniments for art song, operatic and instrumental literature, choral literature, gospel and jazz styles will be studied through discussion and performance.
Grade Type: Letter Grade
Fee: Additional instruction fee
Prerequisite(s): MUS 256

MUS 377 - Post Production and Editing

Units: 3
When Offered: Spring
Introduction to audio post production and editing for visual media. Methods for sound synchronization, dialogue recording, editing and mixing, and sound effects will be covered. Students will produce short projects applying course content to short films and advertisements.
Grade Type: Letter Grade
Prerequisite(s): MUS 387

MUS 384 - Survey of Recording Technology

Units: 3
When Offered: As offered
This course will introduce you to the technology of recording, including analog and digital recording, recording history, technical discoveries and the effect of recording on music at large.
Grade Type: Letter Grade
Prerequisite(s): MUS 224

MUS 385 - Digital Media Ethics

Units: 3
When Offered: As offered
This course provides a comprehensive study of intellectual property, including copyrights, trademarks, trade secrets, patents, and rights of privacy and publicity. Specific topics include exclusive rights, infringement claims and defenses, ownership, duration, and registration.
Grade Type: Letter Grade

MUS 386 - Audio Recording and Studio Techniques I

Units: 3
When Offered: Fall
Introduction to analog and digital audio recording and ProTools recording software. Topics covered will include microphone techniques, signal flow, recording consoles, sound capture, and basic sound editing. Recording of vocal and instruments will be covered.
Grade Type: Letter Grade

MUS 387 - Audio Recording and Studio Techniques II

Units: 3
When Offered: Spring
Course builds upon Audio Recording and Studio Techniques I, exploring advanced studio recording and editing. Topics covered will include signal routing, DAW, digital signal processors, and recording of larger ensembles and diverse instruments.
Grade Type: Letter Grade
Practicum: Practicum hours required
Prerequisite(s): MUS 386

MUS 390 - Projects in Musical Analysis

Units: 1
When Offered: Spring (odd years)
This course is a topical study in musical analysis that builds on the material in MUS 311. Students will be exposed to various analytical techniques utilized by the professional music theorist including Schenkerian Analysis, Post-Tonal Musical Analysis, and Narrative Analysis.
Grade Type: Letter Grade
Prerequisite(s): MUS 311

MUS 396 - Lighting Techniques and Applications

Units: 3
When Offered: Spring
Study of equipment and design in lighting related to concert and live performance applications. Emphasis placed on terminology, creation of lighting plots and designs, fixtures, and computer and lighting console instruction.
Grade Type: Letter Grade
Practicum: Practicum hours required

MUS 397 - Studio Production Project I

Units: 1
When Offered: Fall, Spring
Students will record a 30-minute performance project of various ensemble configurations. Selection of material and performance medium will be selected in coordination with the student's applied instructor.
Grade Type: Letter Grade
Prerequisite(s): Junior status

MUS 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

MUS 400 - Special Topics in Music

Units: 1-3
When Offered: As offered
An examination of specific areas of Music.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

MUS 404 - Craft of Ministry II

Units: 2
When Offered: Spring
This course is designed to equip the aspiring worship leader or pastor with administrative, organization, and management skills essential for success in the environment and structure of the local church.
Grade Type: Letter Grade
Prerequisite(s): MUS 304

MUS 405 - Introduction to Music Education

Units: 3
When Offered: Fall
Introduction to music teaching as a profession. This course introduces philosophical foundations, pedagogical approaches, learning environments, curriculum and instruction, content standards, social context, and music instruction and learning with technology.
Grade Type: Letter Grade
Fieldwork: 15 hours of observation required

MUS 408 - Jazz Pedagogy

Units: 2
When Offered: Fall
This course is designed to prepare students to teach jazz music. Students will receive a fundamental background in aspects of administration, preparation, directing, rehearsal, teaching, and evaluation of the various types of jazz ensembles: big bands, combos, and vocal jazz groups. Required of all Music Education majors and those completing the Jazz Studies Concentration.
Grade Type: Letter Grade
Prerequisite(s): MUS 224

MUS 412 - Instrumental Conducting

Units: 2
When Offered: Spring
Advanced development of the specific skills and techniques of conducting instrumental ensembles, including orchestra and wind band. Course includes score analysis, interpretive decisions, baton technique, verbal and non-verbal communication, and development of a conductor's knowledge of relevant instruments and transpositions.
Grade Type: Letter Grade

Practicum: Practicum hours required
Prerequisite(s): MUS 312

MUS 413 - Choral Conducting

Units: 2
When Offered: As offered
Advanced development of the techniques of choral conducting. Course includes score analysis, verbal and non-verbal gestures, interpretative decisions, and development of choral tone.
Grade Type: Letter Grade
Practicum: Practicum hours required
Prerequisite(s): MUS 312
Concurrent Requisite(s): MUS 093

MUS 414 - Interpretive Arranging

Units: 2
When Offered: Fall
The technique of arranging and adapting music for instrumental as well as vocal ensembles of various sizes and composition is the focus of this course content.
Grade Type: Letter Grade
Prerequisite(s): MUS 224 and 225

MUS 416 - Opera Theater Production

Units: 1-3
When Offered: Spring
Practical training in the presentation of musical dramas. Consists of regular rehearsals and final performance of musicals, music dramas, and operas. Open to music majors and non-music majors by audition.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 116, 216, 316, 427, 461, or 462
Concurrent Requisite(s): MUS 071, 072, 081, 082, 461, or 462

MUS 417 - Vocal Pedagogy

Units: 2
When Offered: Spring (even years)
Scientific exploration into the workings of the vocal mechanism and the technique of voice production. A survey of common vocal faults with appropriate correction exercises will be discovered. Successful voice studio procedures are included. Students will demonstrate knowledge learned by privately teaching a student for one month, then once before the class.
Grade Type: Letter Grade

MUS 418 - Piano Pedagogy I

Units: 2
When Offered: Fall (even years)
A survey of the methods and materials available to the private piano teacher. Private studio procedures (teacher-student relationship, billing procedures, recruitment, etc.) will be explored.
Grade Type: Letter Grade
Fee: Additional instruction fee
Concurrent Requisite(s): MUS 450

MUS 419 - Instrumental Pedagogy

Units: 2
When Offered: Spring (even years)
Students study the methods and materials used in teaching brass, woodwind, string, or percussion instruments. The area of emphasis is determined by the student's primary instrument.
Grade Type: Letter Grade
Fee: Additional instruction fee

MUS 422 - Seminar in Conducting

Units: 2
When Offered: Fall, Spring
Those interested in future conducting will study special problems in the field; they will conduct choral and instrumental ensembles, and will observe rehearsals and performances under a master conductor. Historical aspects of conducting will also be important course content.
Grade Type: Letter Grade
Prerequisite(s): MUS 312, and either 412 or 413

MUS 423 - Vocal Repertory Lab

Units: 2
When Offered: Fall (odd years)
This course is designed to prepare vocal performance majors preparing a degree recital. Focuses on all aspects of recital presentation: stage etiquette, stage presence, interpretation of vocal literature by examination of performance practices for the style and period of each piece; how to stage/dramatize an opera aria in a concert/recital setting; exploration of text meaning and derivation.
Grade Type: Letter Grade

MUS 425 - Survey of Music in Other Disciplines

Units: 1
When Offered: Spring (odd years)
The purpose of this class is for students to develop an understanding of music connections, relationships, and applications to other arts in other academic disciplines.
Grade Type: Letter Grade

MUS 427 - Diction for Singers I

Units: 1
When Offered: Fall (even years)
The course encompasses proper diction for the Latin, Italian, and Spanish solo song and choral literature. Development of correct pronunciation methods through the use of language drills, listening to recordings, and reading of phonetic transcriptions of the texts in musical literature.
Grade Type: Letter Grade
Prerequisite(s): One (1) year of private voice study

MUS 428 - Diction for Singers II

Units: 1
When Offered: Spring (odd years)
The course encompasses proper diction for the English, German and French solo song and choral literature. Development of correct pronunciation methods through the use of language drills, listening to recordings, and reading of phonetic transcriptions of the texts in musical literature.
Grade Type: Letter Grade
Prerequisite(s): One (1) year of private voice study

MUS 431 - Senior Recital and Project

Units: 0
When Offered: Fall, Spring
Students seeking a Bachelor of Music degree must enroll in Senior Recital and Project in the semester they intend to perform their Senior Recital, typically the last semester of their senior year. Permission to enroll will be given only after attaining the appropriate Performance Level (Level 5 for Performance majors and Level 4 for Music Education and Composition majors). Piano Proficiency completion required. Requirements for recital length are determined by the student's major. See School of Music Handbook.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

MUS 434 - Creative Worship Planning

Units: 2
When Offered: Spring
Combining a biblical methodology with current technology, this course equips students with the tools necessary for planning and executing effective corporate worship gatherings that foster theological depth, musical excellence, and cultural relevance.
Grade Type: Letter Grade

MUS 438 - Piano Pedagogy II

Units: 2
When Offered: Spring (odd years)
A survey of intermediate and early-advanced methods and materials available to the private piano teacher. Private studio procedures (teacher-student relationship, billing procedures, recruitment, etc.) will be explored.
Grade Type: Letter Grade
Fee: Additional instruction fee
Prerequisite(s): MUS 418
Concurrent Requisite(s): MUS 450

MUS 440 - Instrumental Techniques for Woodwinds

Units: 1
When Offered: Fall (even years)
Private or group instruction on instruments of the woodwind family. Primary emphasis on one instrument to gain basic proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.
Grade Type: Letter Grade

MUS 441 - Instrumental Techniques for Brass

Units: 1
When Offered: Fall (odd years)
Private or group instruction on instruments of the brass family. Primary emphasis on one instrument to gain basic proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.
Grade Type: Letter Grade

MUS 442 - Instrumental Techniques for Percussion

Units: 1
When Offered: Spring (even years)
Private or group instruction on instruments of the percussion family. Primary emphasis on one instrument to gain basic

proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.
Grade Type: Letter Grade

MUS 443 - Instrumental Techniques for Strings

Units: 1
When Offered: Spring (odd years)
Private or group instruction on instruments of the string family. Primary emphasis on one instrument to gain basic proficiency, with exposure to problems and techniques of the other members of that family. Instruction in pedagogical techniques useful in classroom instruction.
Grade Type: Letter Grade

MUS 444 - Vocal Techniques

Units: 1
When Offered: Fall (even years)
Instruction for Music Education majors in the fundamentals of vocal tone production, breathing, breath control, and posture, and approaches for working with groups of singers in classroom teaching. Topics will include proper vowel formation, vocal warm-ups, register phenomena, diction and vocal health. Students will learn songs as examples for class topics, with the possible opportunity for individual performance and attention to individual problems.
Grade Type: Letter Grade
Prerequisite(s): MUS 214 and 215

MUS 445 - Marching Band Techniques

Units: 2
When Offered: Fall (even years)
Marching Band Techniques is designed for Music Education majors with an instrumental emphasis. The course provides an overview of the skills and knowledge needed to plan, organize, manage, and teach a high school marching band program. Topics to be covered include: music selection, show design, rehearsal planning, marching fundamentals and styles, instruments and equipment, budgets, travel planning, practices and policies, and philosophy. A six-month College Subscription of Pyware 3D drill design software is required.
Grade Type: Letter Grade
Prerequisite(s): MUS 124

MUS 446 - Commercial Music Ensemble

Units: 0-1
When Offered: Fall, Spring
Exploration of musical genres in small ensemble setting. Ensemble will explore one musical style which may change each semester. Genres selected from include but are not limited to: Funk Ensemble, Jam Band, Salsa Band, Rock, Country, R-n-B, Blues, and Jazz Fusion. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade

MUS 450 - Observations and Practicum in Teaching Methods

Units: 1
When Offered: As offered
Practical experience in observing and teaching music in individual and group learning environments under faculty supervision. Regularly scheduled conferences for evaluation and planning. Open to selected Music Majors only.
Repeatable: May be repeated for a maximum of four (4) units

Grade Type: Letter Grade
Prerequisite(s): MUS 224, two years of applied music, and successful completion of Piano Proficiency examination

MUS 454 - Worship Forum

Units: 1
When Offered: Fall, Spring
While building community and culture for Worship Arts and Ministry students, this class focuses on the methodology and theology of effective corporate worship leadership, coaching students in platform presentation, rehearsing music ensembles, recruiting teams, and reaching worshipers, in the context of their local church internship.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): MUS 054

MUS 456 - Commercial Instrumental or Vocal Project II

Units: 1
When Offered: Fall, Spring
Students will complete a 60-minute performance or project related to their area of studies in commercial music performance. Selection of material and performance medium will be selected in coordination with the student's applied instructor.
Grade Type: Letter Grade
Prerequisite(s): MUS 356

MUS 460 - Private Instruction

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 080 and declared Music major or minor

MUS 461 - Private Instruction: Voice

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 081 and declared Music major or minor

MUS 462 - Private Instruction: Piano

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students

must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 082 and declared Music major or minor

MUS 463 - Private Instruction: Organ

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 083 and declared Music major or minor

MUS 464 - Private Instruction: Woodwinds

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 084 and declared Music major or minor

MUS 465 - Private Instruction: Brass

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 085 and declared Music major or minor

MUS 466 - Private Instruction: Strings

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit

Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 086 and declared Music major or minor

MUS 467 - Private Instruction: Percussion

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 087 and declared Music major or minor

MUS 468 - Private Instruction: Guitar

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. Students must arrange a lesson time before or during the first week of classes in the School of Music office or with the instructor. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 088 and declared major or minor

MUS 469 - Private Instruction: Accompanying

Units: 1-2
When Offered: Fall, Spring
Private Instruction is offered with material and performance of increasing difficulty as the student develops. A weekly meeting of accompanying majors which will explore accompanying, vocal, and instrumental coaching techniques, emphasizing the interaction between partners and the musical style and performance problems in a wide range of instrumental and vocal repertory and style. Twelve (12) half-hour lessons will be offered per unit. Students are expected to perform in Student Recitals and a Jury Exam.
Repeatable: May be repeated for a maximum of twenty-four (24) units
Grade Type: Letter Grade
Fee: Additional private instruction fee
Prerequisite(s): MUS 089 and declared Music major or minor

MUS 471 - Worship Leadership and Performance Seminar

Units: 3
When Offered: As offered
Worship Leadership and Performance continues the material studied in The Programming and Practice of worship and provides hands-on experience in planning and leading worship. Several worship situations will be set up and assigned to students who will plan a worship service, adapting to the assigned context. The worship service will be led with class participants assisting in musical roles as needed, and other students participate as congregational members. Each worship experience will be analyzed and evaluated by fellow students and instructor, followed by constructive discussion addressing areas of strength and suggestions for improvement.
Grade Type: Letter Grade

MUS 472 - Orchestration

Units: 3
When Offered: Fall
A study of the orchestral instruments; scoring for full orchestration or small ensembles. Students do extensive work in the computer lab working with notation software.
Grade Type: Letter Grade
Prerequisite(s): MUS 224

MUS 473 - Advanced Studies in Music Education

Units: 3
When Offered: Spring
A study of advanced methods and strategies for teaching music within specific contexts (choral, band, orchestra) in middle and high school settings. Students will create and teach lessons, expressing expertise in teaching methods and strategies, as well as observing master teachers in the classroom and studio.
Grade Type: Letter Grade
Fieldwork: 30 hours of observation are required
Prerequisite(s): MUS 405, and either 476 or 479

MUS 474 - Worship Ministry Internship

Units: 1
When Offered: Summer
This internship will consist of a summer spent serving in the context of a church worship ministry under the direct mentorship of an established and influential worship leader/pastor. This internship will serve as a capstone project for those in the BA in Worship Arts and Ministry degree program and will represent a synthesis and application of musical, technical, ministerial, and professional skills assessed throughout the program.
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Dean

MUS 475 - General Music Methods

Units: 3
When Offered: Spring
Exploration of the methodologies for teaching non-performance music curricula in the classroom. Methodologies include Orff, Kodály, and Dalcroze, as well as learning theories for elementary-aged students, lesson plans, and the application of music and the arts in other disciplines. In addition to classroom instruction, students will complete observation hours of master teachers.
Grade Type: Letter Grade
Prerequisite(s): MUS 405

MUS 476 - Instrumental Methods

Units: 3
When Offered: Fall
Course is designed to teach the curricular foundations for future music educators teaching orchestra, band, and jazz in school settings. Emphasis placed on administration of instrumental programs, rehearsal techniques, content standards, lesson planning, program building, classroom management, and advocacy.
Grade Type: Letter Grade
Prerequisite(s): MUS 345, and either 412 or 413

MUS 477 - Audio Mastering

Units: 2
When Offered: Fall
Audio processing and mastering techniques applied to audio preparation for distribution.
Grade Type: Letter Grade
Prerequisite(s): MUS 387

MUS 479 - Choral Methods

Units: 3
When Offered: Fall
Course is designed to teach the curricular foundations for future music educators teaching choir in school settings. Emphasis placed on program administration, rehearsal techniques, sight-reading, content standards, lesson planning, program building, classroom management and advocacy.
Grade Type: Letter Grade
Prerequisite(s): MUS 344, 475, and either 412 or 413

MUS 484 - Professional Leadership for Ministers

Units: 2
When Offered: Fall
This course will expose future ministers to principles and philosophies of effective high-level leadership in the professional environment. In addition, it will seek to unlock the unique strengths of each individual student and explore how those can be leveraged toward effective leadership in the environment of the church.
Grade Type: Letter Grade

MUS 487 - Sound Design for Film and Multimedia

Units: 3
When Offered: Spring
Integration of audio and studio technology in post production. Topics include dialogue replacement, sound effects design and editing, Foley, surround sound mixing, and music score production.
Grade Type: Letter Grade
Practicum: Practicum hours required
Prerequisite(s): MUS 387

MUS 489 - University Choir and Orchestra

Units: 0-1
When Offered: Fall, Spring
University Choir and Orchestra is open by audition to all interested students. UCO will rehearse and perform a variety of sacred music. A concert tour at the end of the school year is required. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units. Students must have sophomore status and prior experience to take Upper Division ensembles.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Prerequisite(s): MUS 090

MUS 490A - Major Ensemble: Symphonic Band

Units: 0-1
When Offered: Fall, Spring
An inclusive concert band designed to provide instrumental experience and growth through rehearsal and public performance. Open to qualified students by audition or instructor's consent. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit

each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Prerequisite(s): MUS 067 or 097
Concurrent Requisite(s): MUS 072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 490B - Major Ensemble: Camerata

Units: 0-1
When Offered: Fall, Spring
Camerata is the most advanced, select mixed (SATB) choral ensemble open by audition from all academic disciplines. Repertoire for this ensemble focuses on music composed specifically for advanced level chamber choirs. Additionally, Camerata will join other choirs and Symphony Orchestra to perform extended works composed for large musical forces. Rehearsals seek to promote vocal development, musicianship training, team work, artistic expression, and spiritual reflection. Camerata is also a service organization which performs concerts for the CBU community, in the local area, and in outreach and recruitment events. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 068

MUS 490C - Major Ensemble: Magnolia Singers

Units: 0-1
When Offered: Fall, Spring
This choral ensemble will rehearse and perform a variety of music for soprano/alto voices and combine with other choirs to form the Worship Collective. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Prerequisite(s): MUS 091 or 094
Concurrent Requisite(s): MUS 069, 090, or 489

MUS 490D - Major Ensemble: Lancer Chorus

Units: 0-1
When Offered: Fall, Spring
This choral ensemble will rehearse and perform a variety of music for tenor/bass voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Prerequisite(s): MUS 092
Concurrent Requisite(s): MUS 069, 090, or 489

MUS 490E - Major Ensemble: Rhapsody

Units: 0-1
When Offered: Fall, Spring
This choral ensemble will rehearse and perform a variety of music for soprano/alto voices. The group will concertize throughout the traditional academic year. Open by audition to all interested students. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Prerequisite(s): MUS 091 or 094
Concurrent Requisite(s): MUS 069, 090, or 489

MUS 490F - Major Ensemble: Wind Ensemble

Units: 0-1
When Offered: Fall, Spring
A select concert band comprised of the finest woodwind, brass, and percussion students at the University, performing both standard and emerging repertoire for winds at a high artistic level. Open to qualified students by audition. Members of the ensemble are expected to demonstrate outstanding skill and musicianship through individual practice with refinement in ensemble rehearsal. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Prerequisite(s): MUS 097
Concurrent Requisite(s): MUS
072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 490H - Major Ensemble: Symphony Orchestra

Units: 0-1
When Offered: Fall, Spring
Symphony Orchestra is open by audition to all qualified students. The group will rehearse and perform the finest examples of orchestral literature, ranging from the 18th century to the present. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Fee: Additional uniform fee
Prerequisite(s): MUS 099
Concurrent Requisite(s): MUS
072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 491A - Chamber Ensemble: Strings

Units: 0-1
When Offered: Fall, Spring
This course provides opportunities for preparation and performance of chamber music for strings including string quartets, trios, and more. Ensembles rehearse weekly with assigned faculty coaches and present performances of prepared music. The course is open to all music majors and to non-music majors by instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade

Prerequisite(s): MUS 095
Concurrent Requisite(s): MUS 079, 086, or 466

MUS 491B - Chamber Ensemble: Piano

Units: 0-1
When Offered: Fall, Spring
The course is designed to provide musicians with the opportunity to explore chamber music involving the piano and other instruments. Various chamber ensembles may be formed including piano duets, trios, quartets, and quintets. Ensembles rehearse weekly, are provided coaching, and present performances of the music studied. The course is open to all music majors and to non-music majors by instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 095
Concurrent Requisite(s): MUS
072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 491C - Chamber Ensemble: Guitar

Units: 0-1
When Offered: Fall, Spring
The Guitar Ensemble studies and performs advanced music of different musical style periods and genres. Students will develop musical skills through weekly coaching, rehearsals, and performance. The ensemble is open to all music majors and to non-music majors by instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 095
Concurrent Requisite(s): MUS 079, 088, or 468

MUS 491D - Chamber Ensemble: Winds

Units: 0-1
When Offered: Fall, Spring
The course is designed to provide musicians with the opportunity to explore chamber music written for various ensembles of wind instruments. Ensembles may include flute choir, clarinet choir, woodwind quintet, brass quintet, trombone choir, etc. Students will develop musical skills through weekly coaching, rehearsals, and performance. The ensemble is open to all music majors and to non-music majors by audition or instructor permission. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 095
Concurrent Requisite(s): MUS 079, 084, 085, 464, or 465

MUS 491E - Chamber Ensemble: Jazz Combo

Units: 0-1
When Offered: Fall, Spring
Jazz Combo provides musicians with opportunities to study and perform standard, traditional, and contemporary jazz literature for small ensemble, and to develop individual improvisational skills. It is open to qualified students by audition or instructor's consent. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may

be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 095 or 096
Concurrent Requisite(s): MUS
072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 491F - Chamber Ensemble: Jazz Ensemble

Units: 0-1
When Offered: Fall, Spring
Jazz Ensemble provides musicians with opportunities to learn a variety of jazz styles in a "big band" setting, as well as to enhance individual improvisational skills. This course also provides practical experience through rehearsals and performances. It is open to qualified students by audition or instructor's consent. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for zero (0) units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 067, 096, or 097
Concurrent Requisite(s): MUS
072, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 460, 461, 462, 463, 464, 465, 466, 467, 468, or 469

MUS 491H - Chamber Ensemble: Chamber Singers

Units: 0-1
When Offered: Fall, Spring
Chamber Singers gives experience in preparation and performance of recognized and new choral works as well as masterworks of Western music written for small choral ensembles. Students must have sophomore status and prior experience to take Upper Division ensembles. Students must be enrolled in at least one ensemble for full credit each semester. Additional ensembles may be taken for 0 units.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): MUS 093

MUS 494 - Senior Recital and Project for Worship Arts

Units: 0
When Offered: Fall, Spring
Worship Arts and Ministry students must plan, organize, lead, and execute a 60-minute senior recital or project. The vision of the event will be modeled after a "Night of Worship" setting and include select creative elements outside of music such as lighting, video, staging, and/or other artistic expressions. Student must complete Level 4 of the Worship Arts Proficiency.
Grade Type: Letter Grade
Prerequisite(s): Senior status

MUS 496 - Internship

Units: 3
When Offered: Fall, Spring
Under faculty supervision, students will be assigned to positions in music industry related to their area of study. The internship provides breadth and depth in real-world experiences within businesses and organizations, allowing for application of concepts and skills.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

MUS 497 - Studio Production Project II

Units: 1
When Offered: Fall, Spring
Students will record a 60-minute performance project of various ensemble configurations, including at least one soundscape. Selection of material and performance medium will be selected in coordination with the student's applied instructor.
Grade Type: Letter Grade
Prerequisite(s): MUS 397

NAM 120 - Computer Programming for Network Administration

Units: 3
When Offered: As offered & OPS
Introduction to computer programming using PowerShell. Covers problem solving methods, algorithm development, and modern programming methodologies. Topics include creating and executing PowerShell scripts, object-based scripting, implementing conditional logic, setting up loops, and creating functions. The objective of the course is to provide a methodology for implementing administrative related tasks using a robust scripting framework.
Grade Type: Letter Grade
Prerequisite(s): MAT 115

NAM 320 - Computer and Operating Systems Architecture

Units: 3
When Offered: As offered & OPS
This course explores the theoretical and practical aspects of computer operating systems. Topics covered include the fundamentals of computer organization, operating system theory, operating system architecture, Windows and Mac operating systems, UNIX/LINUX operating systems, mobile device operating systems, file systems, virtualization, hardware, storage, resource sharing, network connectivity, power interfaces, system set-up, interfacing with peripherals, installing operating system software, system testing and debugging, troubleshooting, and the planning and installation of application software.
Grade Type: Letter Grade

NAM 470 - Voice over IP

Units: 3
When Offered: As offered & OPS
This course focuses on the skills required to assess the telephony needs of an organization and explores the methodologies to select, develop, integrate, and administer the appropriate Internet-based solution. In addition, the course explores the technical aspects of Voice-over-IP (VoIP) including design, installation, maintenance, monitoring, administration, performance, VoIP systems and protocols, packet transmission and switching, VoIP signaling and call processing, scalability, standards-compliance, topological considerations and Quality of Service (QOS).
Grade Type: Letter Grade
Prerequisite(s): CIT 465

NAM 475 - Wireless Communications

Units: 3
When Offered: As offered & OPS
This course explores the methodologies used to assess the wireless needs of an organization and the skills required to select, develop, integrate, and administer the appropriate wireless-based solution. Topics include the technical aspects of Bluetooth, Wi-Fi, cellular and satellite communications; the application of Wireless Personal Area Networks (WPANs), Wireless Local Area Networks (WLANs), Wireless Metropolitan Area Networks (WMANs), and Wireless Wide Area Networks (WWANs); applying the appropriate security; and evaluating, analyzing, designing, managing, administering and troubleshooting various wireless-based implementations.

Grade Type: Letter Grade
Prerequisite(s): CIT 465

NAM 480 - Network Engineering

Units: 3
When Offered: As offered & OPS
This course explores the methodologies used to assess the data communication needs of an organization and the skills required to select, develop, integrate, and administer the appropriate network-based architecture. Topics include data communication networks and integration, flow control, VoIP, SDN, OSI model, compression and load balancing, VPN networks, storage, access-list configuration, firewalls, and advanced routing protocols. This course includes the opportunity to evaluate and analyze the interworking of various technologies utilizing a virtual Cisco based lab.
Grade Type: Letter Grade
Prerequisite(s): CIT 465

NAM 495 - Network Administration and Management Program Capstone

Units: 3
When Offered: As offered & OPS
This course provides the opportunity to integrate knowledge and demonstrate skills obtained throughout the program in the form of a enterprise level network related project, which involves the analysis of an organization's network needs, the development of a network architecture, and the project management components needed for successful implementation. The course culminates with a final report/paper and presentation.
Grade Type: Letter Grade
Prerequisite(s): CIT 330, 380, NAM 320, 470, 475, and 480

NUR 101 - Introduction to the Nursing Profession

Units: 1
When Offered: Fall, Spring, Summer, RN-BSN
The purpose of this course is to introduce students to the basic skills necessary for academic success in health-related professions, to review the numerous career options in the health professions, and to explore the students' calling and vocation. It will prepare students for entry into the nursing program by building the competencies necessary for gaining admission, successful progression, and considerations for entering the nursing profession.
Grade Type: Pass/Fail

NUR 201 - Theoretical Foundations in Nursing

Units: 3
This course is designed to enhance an understanding of the history of the discipline and profession of nursing from a Biblical worldview. Parse's humanbecoming paradigm, the ethos of human dignity, and living quality will be explored. Students will discuss the phenomenon of interest in nursing- humanuniverse, assumptions, postulates, and concepts of Parse's theory and demonstrate true presence in the nurse-person relationship. Legal and ethical principles will be introduced.
Grade Type: Letter Grade
Fee: Additional equipment fee
Prerequisite(s): Permission of the Dean

NUR 215 - Fundamental Skills for Nursing Practice

Units: 4
When Offered: Fall, Spring
This introductory course guides and prepares students to develop basic competencies necessary to meet the needs of diverse individuals throughout the lifespan. Using the nursing process, students learn concepts and theories basic to the art and science of nursing.

Grade Type: Letter Grade
Lecture: 2 hours/week theory **Practicum:** 6 hours/week practicum
Prerequisite(s): Permission of the Dean

NUR 235 - Physical Assessment

Units: 4
When Offered: Fall, Spring
The course focuses on helping students acquire skills to conduct a comprehensive health assessment. The process of data collection, interpretation, documentation and dissemination of assessment data will be addressed. The practicum provides students with the opportunity to use interview, observation, percussion, palpation, inspection and auscultation in assessing clients across the lifespan in simulated and actual settings.
Grade Type: Letter Grade
Lecture: 2 hours/week theory **Practicum:** 6 hours/week practicum
Prerequisite(s): Permission of the Dean

NUR 236 - Physical Assessment for the Licensed Registered Nurse

Units: 3
When Offered: RN-BSN
Presentation of a disease process as it relates to findings in a comprehensive assessment is required. Students will be expected to look at vital statistics of disease and research results in a critical manner. The course focuses on helping students improve skills to conduct a comprehensive health assessment. The process of data collection, interpretation, documentation and dissemination of assessment data will be addressed. Students will have the opportunity to use interview, observation, percussion, palpation, inspection, and auscultation. The course will also explore faith integration and safely providing patient care with dignity, compassion and respect in all facets of the assessment process.
Grade Type: Letter Grade
Prerequisite(s): Admission into the RN-BSN program

NUR 255 - Adult Health I

Units: 4
When Offered: Fall, Spring
This is the first of two Medical Surgical courses applying nursing theory and using evidence based clinical judgment in the care of adult clients with acute and chronic illnesses.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 256

NUR 256 - Adult Health I Practicum

Units: 3
When Offered: Fall, Spring
In this practicum course, learners will apply nursing theory and use evidence based clinical judgment in the care of adult clients with acute and chronic illnesses.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 255

NUR 300 - Theoretical Foundations and Interprofessional Communication

Units: 4
When Offered: RN-BSN

This course is designed to enhance an understanding of the history of the discipline and profession of nursing. Parse's humanbecoming paradigm, the ethos of human dignity, and living quality will be explored. Students will discuss the phenomena of interest in nursing- humanuniverse, assumptions, postulates, and concepts of Parse's theory and demonstrate true presence in the nurse-person relationship.
Grade Type: Letter Grade
Prerequisite(s): Admission into the RN-BSN program

NUR 301 - Communication and Informatics in Nursing Practice

Units: 3
When Offered: Fall, Spring, RN-BSN
In this course healthcare informatics and interprofessional collaboration/ communication principles including values, attitudes, and beliefs will be explored within the healthcare delivery system. Legal and ethical principles of the role of the nursing professional will be introduced. Students will develop skills for information literacy and clinical documentation.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

NUR 315 - Pathophysiology

Units: 3
When Offered: Fall, Spring, RN-BSN
Building on general principles of anatomy and physiology, students will develop an understanding of disease processes, prevention, clinical signs and symptoms, secondary effects and methods of treatment. Students will use evidence and vital statistics to explain normal and abnormal findings and link abnormal findings with disease processes.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

NUR 320 - Pharmacology and Nutrition

Units: 3
When Offered: Fall, Spring, RN-BSN
An introduction to the basic principles of pharmacology and nutrition with a focus on pharmacokinetics, pharmacodynamics, and therapeutic implications for major drug categories as well as natural products. Emphasis also on nutritional health promotion as well as therapeutic nutrition related to selected illness states.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

NUR 325 - Nursing Services with the Childbearing Family

Units: 3
When Offered: Fall, Spring
This course emphasizes applying nursing theory and evidenced based clinical judgment in the care of low and high-risk antepartum, intrapartum, neonatal clients, and their families. The focus is on health promotion, risk reduction, family planning, and disease prevention.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 326

NUR 326 - Nursing Services with the Childbearing Family Practicum

Units: 2
When Offered: Fall, Spring
In this practicum course students will use theory and evidenced based clinical judgment in the care of low and high-risk antepartum, intrapartum, postpartum, and neonatal clients.

Grade Type: Letter Grade
Practicum: 6 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 325

NUR 327 - Health Assessment and Promotion

Units: 4
When Offered: Fall, Spring, Summer, RN-BSN
The course is designed to improve knowledge, skills, and attitudes related to health promotion, the early detection of illness and disease prevention within diverse populations. Techniques of interview, observation, percussion, palpation, inspection, and auscultation to perform a comprehensive assessment are demonstrated. The process of data collection, interpretation, documentation and dissemination of assessment findings are covered. Presentation of a disease process and integration of health promotion strategies as it relates to the findings of a comprehensive assessment is required.
Grade Type: Letter Grade
Prerequisite(s): Admission into the RN-BSN program

NUR 335 - Nursing Services with the Childrearing Family

Units: 3
When Offered: Fall, Spring
This course applies nursing theory and uses evidence-based clinical judgment in the care of children and adolescents with acute and chronic illnesses. Focus will be upon child growth and development and family-centered care.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 336

NUR 336 - Nursing Services with Childrearing Families Practicum

Units: 2
When Offered: Fall, Spring
This practicum focuses on the application of nursing theory and nurse-family processes in providing evidence-based nursing services to children, adolescents, and their families. The course emphasizes clinical judgment in providing health promotion, disease prevention, and nursing care of pediatric clients with acute and chronic illnesses in diverse settings.
Grade Type: Letter Grade
Practicum: 6 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 335

NUR 355 - Mental Health Nursing

Units: 3
When Offered: Fall, Spring
Introduction to mental health nursing services and nurse-person and nurse-group communication patterns. Focus is on interdisciplinary collaboration, teaching-learning, and change-persistence patterns with health promotion, disease prevention, and care of individuals, families, and communities with acute and chronic mental health conditions. Nursing services with special populations including the homeless and issues regarding abuse, neglect, trauma, and substance abuse are explored.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 356

NUR 356 - Mental Health Nursing Practicum

Units: 2
When Offered: Fall, Spring
Practicum learning experience of nursing services with persons who have the medical diagnosis of mental illness in both inpatient and community treatment settings. Focus is on the changing healthcare systems and collaborative health promotion and disease prevention, as well as the nurse-person, nurse-group, nurse-community patterns of relating, and care of individuals and families with acute and chronic mental health problems.
Grade Type: Letter Grade
Practicum: 6 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 355

NUR 375 - Research and Writing for the Health Care Professional

Units: 3
When Offered: Fall, Spring, RN-BSN
This course introduces research skills and scholarly writing. Students learn to appraise and integrate research as it applies to nursing practice. The course will explore the development of nursing knowledge emphasizing current literature and recognizing research methods and designs. The goal is to aid the student to critically evaluate and apply nursing research.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

NUR 400 - Special Topics in Nursing

Units: 1-4
When Offered: As offered
This course offers a concentration upon a specific topic in the field of nursing. The topic varies by semester.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

NUR 420 - Community and Public Health Nursing

Units: 3
When Offered: Fall, Spring, RN-BSN
The course focuses on theoretical concepts related to the role of the community/public health nurse as a collaborator within the healthcare setting. Determinants of health for aggregate and vulnerable populations will be explored. The community/public health nurse as a change agent at the local, national, and global policy level will be examined. This course meets the state published mandated reporting requirements for abuse and neglect of at-risk populations.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 421

NUR 421 - Community and Public Health Nursing Practicum

Units: 3
When Offered: Fall, Spring, RN-BSN
Students will apply community/public health course information in a variety of community-based settings. Practicum experiences will include discussion of health promotion and disease prevention, case management, community assessment, and interdisciplinary project development. This course, together with the didactic course, will prepare the student to be eligible to apply for a Public Health Certificate after graduation. Students may only earn credit for NUR 421 or 421G.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 420

NUR 421G - Community and Public Health Nursing Global Experience

Units: 3
When Offered: Fall, Spring, RN-BSN
Students will apply community/public health course information in a variety of community-based settings. Practicum experiences will include discussion of health promotion and disease prevention, case management, community assessment, and interdisciplinary project development. This course, together with the didactic course, will prepare the student to be eligible to apply for a Public Health Certificate after graduation. This course has an academic service learning component. Students may only earn credit for NUR 421 or 421G.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Fee: Additional trip fee(s)
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 420

NUR 430 - Transcultural Patterns of Health

Units: 3
When Offered: Fall, Spring, RN-BSN
This course examines cultural nursing theories and worldviews impacting healthcare decisions. Through critical reflection, students will integrate knowledge of cultures and worldviews to improve their communication, minimize cultural distress, and improve practice. Potential barriers to cultural care, ethical issues, and complimentary practices will be evaluated. Students may only earn credit for NUR 430 or 430G.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Prerequisite(s): Permission of the Dean

NUR 430G - Transcultural Patterns of Health Global Experience

Units: 3
When Offered: Fall, Spring, RN-BSN
This course examines cultural nursing theories and worldviews impacting healthcare decisions. Through critical reflection, students will integrate knowledge of cultures and worldviews to improve their communication, minimize cultural distress, and improve practice. Potential barriers to cultural care, ethical issues, and complimentary practices will be evaluated. This course has an academic service learning experience. Students may only earn credit for NUR 430 or 430G.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Fee: Additional trip fee(s)
Prerequisite(s): Permission of the Dean

NUR 431 - Global Service-Learning in Nursing: Core Concepts

Units: 3
When Offered: As offered
This is the first of three courses in the Global Integration Studies: Global Health Nursing Minor. This course begins to prepare the student for engaging in healthcare globally. It provides a solid foundation of the concepts of cultural awareness, cultural knowledge, cultural skill, cultural encounters and cultural desire based on Campinah-Bacote's (2002) definition of cultural competence. Using Biblical principles and Parse's Humanbecoming School of Thought (1998), students will develop the skills needed to provide relevant and meaningful nursing care to members of various population groups.
Grade Type: Letter Grade
Prerequisite(s): Previous ISP experience

NUR 432 - Global Service-Learning in Nursing: Advanced Concepts

Units: 3
When Offered: As offered
This is the second of three courses in the Global Integration Studies: Global Health Nursing Minor. Building upon the Core Concepts of Global Service Learning in Nursing, students will compare and contrast nursing, healthcare and healthcare systems nationally and globally. This course will incorporate frameworks for Global Service Learning in Nursing from the National League of Nursing, Center for Disease Control and World Health Organization. Using Biblical principles and Parse's Humanbecoming School of Thought (1998), students will develop a plan to provide relevant and meaningful nursing care to members of specific population groups.
Grade Type: Letter Grade
Prerequisite(s): NUR 431 and permission of the Dean

NUR 433 - Global Service-Learning in Nursing: Immersion Practicum

Units: 3
When Offered: As offered
This is the third of three courses in the Global Integration Studies: Global Health Nursing Minor. Building upon the Core and Advanced Concepts of Global Service Learning in Nursing, students will apply cultural awareness, cultural knowledge, cultural skill, cultural encounters and cultural desire based on Campinah-Bacote's (2002) definition of cultural competence to a specific global nursing population. Using Biblical principles and Parse's Humanbecoming School of Thought (1998), students will implement a plan to provide relevant and meaningful nursing care to members of specific population groups. Involves travel as a group to selected local areas inside and/or outside of the U.S.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Prerequisite(s): NUR 431, 432, and permission of the Dean

NUR 440 - Adult Health II

Units: 4
When Offered: Fall, Spring
This is the second of two Medical Surgical courses analyzing nursing theory and applying evidence based clinical judgment in the care of adult clients with complex acute and chronic illnesses.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 441

NUR 441 - Adult Health II Practicum

Units: 3
When Offered: Fall, Spring
In this practicum course, learners will analyze nursing theory and apply evidence based clinical judgment in the care of adult clients with complex acute and chronic illnesses.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 440

NUR 450 - Nursing Services for the Older Adult and Family

Units: 2
When Offered: Fall, Spring
This course focuses on the provision of nursing care for the aging population. Expected and unexpected health-related changes of older adults are explored. Emphasis is on living quality in health promotion and disease prevention. This course will examine how ageism impacts care of the older adult.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 451

NUR 451 - Nursing Practicum with the Older Adult and Family

Units: 1
When Offered: Fall, Spring
This practicum allows students to provide nursing care for the aging population with expected and unexpected health-related changes. Students will participate in health promotion and disease prevention activities in a variety of settings.
Grade Type: Letter Grade
Practicum: 3 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 450

NUR 460 - Ethics and Issues in Health Care

Units: 3
When Offered: Fall, Spring, RN-BSN
The course is designed to explore the meaning of becoming a member of the nursing profession. The philosophical and ethical aspects of the professional role of the Registered Nurse are examined. Emphasis is placed on current issues of professionalism, legal accountability and responsibility, liability, advocacy, collaboration, and ethical responsibilities of decision making within complex healthcare systems.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

NUR 470 - Christian Leadership in Nursing

Units: 3
When Offered: Fall, Spring, RN-BSN
This course emphasizes principles of nursing leadership and clinical reasoning to promote safe, quality patient care in a variety of settings. Leadership skills include prioritization, delegation, negotiation, collaboration, and coordination. Roles include provider and manager of nursing care in an interprofessional environment. Specific focus will be on transition to practice as an entry-level professional nurse.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 471

NUR 471 - Christian Leadership in Nursing Practicum

Units: 2
When Offered: Fall, Spring, RN-BSN
This practicum allows students to demonstrate principles of nursing leadership and clinical reasoning to promote safe, quality patient care in a variety of settings. Prioritization, delegation, negotiation, collaboration, and coordination will be emphasized. This practicum culminates in a project designed to improve outcomes in health promotion and disease prevention.
Grade Type: Letter Grade
Practicum: 6 hours/week practicum
Prerequisite(s): Permission of the Dean
Pre- or Co- Requisite(s): NUR 470

NUR 494 - NCLEX Review

Units: 1
When Offered: Fall, Spring
This course prepares students to pass the NCLEX-RN.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

NUR 498 - Senior Capstone Practicum

Units: 2
When Offered: As offered
LVN thirty (30) unit option only. This practicum course focuses on the roles and responsibilities of a new graduate professional nurse. The course provides an opportunity for the student to further develop appropriate leadership and practice nursing skills necessary for the beginning practitioner role. It also facilitates synthesis for nursing knowledge and skills acquired in previous LVN option courses for the provision of nursing care to individuals and families.
Grade Type: Letter Grade
Practicum: 6 hours/week of practicum

NUR 499 - Senior Capstone Practicum

Units: 3
When Offered: Fall, Spring, RN-BSN
This final course practicum focuses on knowledge synthesis and role-readiness of a new graduate nurse. Clinical opportunities are provided utilizing preceptor partnerships to further develop leadership and nursing skills necessary for transition to practice.
Grade Type: Letter Grade
Practicum: 9 hours/week practicum
Prerequisite(s): Permission of the Dean

NFS 100 - Nutrition Basics for Sport Performance

Units: 1
When Offered: Fall
Course covers key topics of nutrition for student athletes outlined in the LANCERS' Fuel Student Athlete Nutrition Manual. Course includes didactic and personalized learning experiences in nutritional and dietary assessments targeted to enhance healthy eating practices that support cognitive function and athletic practice while promoting proper nourishment of the body to optimize performance levels.
Grade Type: Pass/Fail

NFS 101 - Introduction to Nutrition and Food Sciences

Units: 3
When Offered: Fall, Spring
This class provides an introduction to the fundamental principles of normal nutrition, food science and their relation to the health and physical fitness of individuals. Also includes a discussion of the career opportunities within nutrition and sciences, and the computer software pertinent to the field.
Grade Type: Letter Grade

NFS 300 - Lifecycle Nutrition

Units: 3
When Offered: Fall
This class will provide a rapidly moving study of nutrition in the lifecycle from infancy through advancing years. Emphasis will be placed on the application of nutritional requirements and guidelines in each age group to dietary planning and intake.
Grade Type: Letter Grade

NFS 310 - Community and Public Health Nutrition

Units: 3
When Offered: Fall, Spring
Study of the community-based programs with nutrition components, including work-site wellness, health promotion,

schools, day-care programs, and health clinics. Programs in these areas include nutrition screening and assessment, feeding programs and assistance, plus health promotion and disease prevention.
Grade Type: Letter Grade

NFS 315 - Experimental Foods

Units: 3
When Offered: Spring
Students will learn to apply basic nutrition and food science research designs to conduct experiments, interpret data, and write reports. The techniques used in the planning, preparation, development, and evaluation of new food products will be covered.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): NFS 101

NFS 320 - Nutritional Biochemistry

Units: 3
When Offered: Spring
Introduction to biochemistry with particular emphasis on nutrition and its effect on metabolism.
Grade Type: Letter Grade
Prerequisite(s): NFS 101

NFS 330 - Food Service, Organization, Purchasing, and Management

Units: 3
When Offered: As offered
Study of equipment, personnel, and cost in the management of large quantity food services. Includes guest professional lectures and site visits to local food service operations.
Grade Type: Letter Grade

NFS 335 - Food Chemistry

Units: 3
When Offered: As offered
This course provides an introduction to theories on the molecular bases of chemical phenomena that dictate the behavior of foods. This is an integrated lecture and lab course. Laboratory sections will provide opportunities for students to observe, manipulate, and explore model food systems. The emphasis is on the major food components (water, lipids, proteins, and carbohydrates) and how these food components behaves under conditions of particular relevance to food processing.
Grade Type: Letter Grade
Prerequisite(s): CHE 115, 115L, and NFS 101

NFS 345 - Food Processing and Engineering

Units: 3
When Offered: As offered
This course examines the application of principles related to the conversion of raw materials into food products. Students will be exposed to principles and practices of food processing unit operations including materials handling, mixing, heating and cooling, quality control, packaging, food quality, and food safety.
Grade Type: Letter Grade
Prerequisite(s): NFS 101

NFS 355 - Food Sensory Analysis

Units: 3
When Offered: As offered
This course emphasizes the principles and applications of instrumental methods for qualitative and quantitative analysis used in the physical, chemical, and instrumental examination of food products. The basic analytical tools for determination of moisture, proteins, carbohydrates, lipids, minerals, and vitamins in food systems are introduced. Sensory methods are also employed in planning, preparation, developing new products, and evaluation of food products.
Grade Type: Letter Grade

NFS 400 - Special Topics in Nutrition and Food Sciences

Units: 3
When Offered: Fall
This course will teach advanced topics in specialized nutrition and food sciences areas such as sports nutrition, quantity foods, planning therapeutic diets, maternal and child nutrition, personal nutrition, nutrient-drug interactions, food safety, and current issues. The specific topic will be announced each semester.
Grade Type: Letter Grade
Prerequisite(s): NFS 101

NFS 420 - Quantity Food Management

Units: 3
When Offered: Spring
The course will focus on the planning and execution of large quantity food production operations and banqueting in various food service environments. The student will obtain hands on experience in the management of large kitchens such as institutional, banquet, and a la carte restaurants.
Grade Type: Letter Grade

NFS 445 - Food Microbiology

Units: 3
When Offered: As offered
This course covers the nature, physiology, and interactions of microorganisms in foods including foodborne diseases, effects of food processing on the microflora of foods, food preservation, food spoilage, and foods produced by microorganisms. Analytical techniques in detecting and quantitating microorganisms and their toxins in foods will be practiced.
Grade Type: Letter Grade
Prerequisite(s): BIO 205 and NFS 101

NFS 455 - Medical Nutrition Therapy I

Units: 3
When Offered: Fall
This course provides a scientific basis for introduction to biochemistry and physiology of human chronic diseases, cardiovascular disease, diabetes, renal disease, cancer, metabolic disorders, with emphasis on nutrition-related principles and intervention.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): NFS 320

NFS 460 - Human Nutrition Assessment Lecture

Units: 3
When Offered: Spring
Scientific study on basis of nutritional assessment using anthropometric, dietary, biochemical, and clinical tests and criteria.

Grade Type: Letter Grade
Prerequisite(s): NFS 101

NFS 465 - Medical Nutrition Therapy II

Units: 3
When Offered: Spring
This course provides an advanced level of understanding of biochemistry, physiology, pathology of human chronic diseases, cardiovascular disease, diabetes, renal disease, cancers, metabolic disorders, with emphasis on nutrition-related mechanisms, metabolisms, and clinical interventions.
Grade Type: Letter Grade
Prerequisite(s): NFS 320 and 455

NFS 475 - Advanced Human Nutrition

Units: 3
When Offered: Spring
Advanced-level nutrition biochemistry with particular emphasis on micro-nutrients, their roles in physiological metabolism, energy balance, physical activity, disease prevention, and emerging issues in maternal nutrition and offspring disease development will be covered.
Grade Type: Letter Grade
Prerequisite(s): NFS 320 and Senior status

NFS 491 - Internship in Nutrition and Food Sciences

Units: 1-4
When Offered: Fall, Spring, Summer
An internship provides nutrition and food sciences majors with valuable experience through working with professionals in their chosen field of study. Three (3) hours per week for 14 weeks of on-site work, observation, or participation are required for each unit of credit and 1-4 units may be taken in any one semester.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Nutrition and Food Sciences major and Junior status

PHI 104 - Special Studies in Philosophy

Units: 1
When Offered: As offered
An examination of specific areas of Philosophy.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

PHI 200 - Special Studies

Units: 3
When Offered: Fall, Spring
Concentration on specific philosophical areas such as particular periods, traditional philosophical classifications, or individual philosophers.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

PHI 213 - Introduction to Philosophy

Units: 3
When Offered: Fall, Spring, & OPS

This course introduces students to the meaning and basic categories of philosophy such as epistemology and philosophy of religion. This is accomplished through an exploration of the primary issues and central figures within the discipline. Particular relevance is given to the development of a Christian worldview and the role philosophy plays in life and culture.
Grade Type: Letter Grade

PHI 233 - Basic Reasoning

Units: 3
When Offered: Fall, Spring
This course introduces students to the fundamental skills involved in critical thinking such as the ability to recognize an argument and discern formal and informal fallacies. Application is made to issues that occur in everyday life.
Grade Type: Letter Grade

PHI 300 - Logic

Units: 3
When Offered: Fall
A systematized study of the canons and criteria of validity in thought and its rational expression by considering the processes of reasoning and inference with applications in propositional logic, natural deduction, predicate logic, and induction.
Grade Type: Letter Grade
Prerequisite(s): PHI 213 or WLD 181

PHI 301 - History of Western Philosophy I

Units: 3
When Offered: Fall
This course traces the development of western philosophy from the Pre-Socratic thinkers through Immanuel Kant. Emphasis is placed on both interacting with primary source material and on understanding the broad trajectory, and paradigmatic shifts, that have shaped Western thought and culture.
Grade Type: Letter Grade

PHI 302 - History of Western Philosophy II

Units: 3
When Offered: Spring
This class considers the formative philosophical movements and thinkers of the 19th and 20th centuries. Emphasis is placed on both interacting with primary source material and on understanding the paradigmatic and cultural shifts brought about by the rejection of, and responses to, Classical and Modern philosophy.
Grade Type: Letter Grade

PHI 303 - Apologetics

Units: 3
When Offered: Fall
This course will examine the emergence of apologetics within the life of the church, highlight various approaches, arguments, and central figures, and the role of apologetics in development of a Christian worldview.
Grade Type: Letter Grade
Prerequisite(s): PHI 213 or WLD 181

PHI 304 - Special Studies in Philosophy

Units: 1
When Offered: As offered

An examination of specific areas of Philosophy.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

PHI 312 - Aesthetics

Units: 3
When Offered: Spring
An introduction to philosophical aesthetics, which has been marginalized and often ignored in philosophical discourse during the past four hundred years. During the last few decades the questions posted by aesthetics have moved back into the center of the philosophical discussion, including the use of the concept by "post-modern" thinkers. The course seeks to bring the student into the longer conversation concerning beauty, "retrieve" important elements that have been lost, and provide a basis for further study.
Grade Type: Letter Grade
Prerequisite(s): ARC 210, ART 242, DES 310, FLM 250, GDM 310, ILL 210, PHI 213, PHO 330, or WLD 181

PHI 320 - Epistemology

Units: 3
When Offered: Spring (odd years)
This course is a study of the perennial questions in the philosophical discipline of Epistemology, or Theory of Knowledge. It provides an introduction to the major parts of an account of knowledge including the nature of belief, justification, and truth. In addition, this course surveys various problems including skepticism, relativism, and the objectivity of knowledge.
Grade Type: Letter Grade
Prerequisite(s): PHI 213 or WLD 181

PHI 323 - Ethics

Units: 3
When Offered: Fall (even years)
This course is an appraisal of the major metaethical positions within Western philosophy such as deontological, utilitarian, and virtue ethics in light of the Christian worldview for the purpose of analyzing and synthesizing theories regarding human conduct. Attention is given to major figures in the history of ethics as well as the nature of ethical language and the concept of value.
Grade Type: Letter Grade
Prerequisite(s): PHI 213 or WLD 181

PHI 324 - Applied Ethics

Units: 3
When Offered: Fall (odd years)
An exploration of the application of various metaethical theories to ethical questions and issues that arise in various arenas of life. The study involves both the examination of methods as well as cases.
Grade Type: Letter Grade

PHI 343 - Philosophy of Religion

Units: 3
When Offered: Spring
This course introduces students to the specific branch of philosophy known as philosophy of religion. This occurs through an examination of the major issues within the discipline such as the existence of God, the problem of evil, and the nature of religious language.
Grade Type: Letter Grade

PHI 353 - Comparative Religions

Units: 3
When Offered: Fall, Spring, & OPS
This course is an introduction to the major religious traditions of the world, particularly Hinduism, Buddhism, Judaism, Christianity, and Islam. The historical development and key figures, as well as major doctrines and practices are explored.
Grade Type: Letter Grade

PHI 363 - Metaphysics

Units: 3
When Offered: Spring (even years)
This course is a study of the basic questions regarding reality as they have developed within Western philosophy. The study will examine such topics as matter, form, substance, and existence, and such movements as idealism, nominalism, realism, and materialism.
Grade Type: Letter Grade
Prerequisite(s): PHI 213 or WLD 181

PHI 399 - Independent Study

Units: 3
A course of study designed to afford superior students an opportunity to pursue independent work in an area of their personal interest. Supervision and evaluation provided by assigned Philosophy department faculty.
Grade Type: Letter Grade

PHI 400 - Special Studies

Units: 3
When Offered: Fall
Concentration on specific philosophical areas such as particular periods, traditional philosophical classifications, or individual philosophers.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

PHI 403 - Cultural Apologetics

Units: 3
When Offered: Spring (odd years)
A study of the ways in which the truth of the Gospel and of the Christian worldview are reflected in popular culture through art, literature, film, music, and television.
Grade Type: Letter Grade
Prerequisite(s): PHI 213

PHI 420 - Readings in 20th Century Epistemology

Units: 3
When Offered: Spring (odd years)
This course is a study of 20th Century Epistemology. It provides an introduction to the major figures and movements of contemporary epistemology.
Grade Type: Letter Grade
Prerequisite(s): PHI 213

PHI 421 - Twentieth-century Ethics

Units: 3
When Offered: Fall (odd years)
A study of 20th century meta-ethics. The course provides an introduction, rooted in primary texts, of the major figures and movements of 20th century thought and seeks to investigate and assess these figures and movements in light of the convictions of the Christian worldview.
Grade Type: Letter Grade
Prerequisite(s): PHI 213

PHI 422 - Twentieth-century Philosophy

Units: 3
When Offered: Fall (even years)
A study of 20th century philosophy. The course provides an introduction, rooted in primary texts, of the major figures and movements of 20th century thought and seeks to investigate and assess these figures and movements in light of the convictions of the Christian worldview.
Grade Type: Letter Grade
Prerequisite(s): PHI 213

PHI 433 - Apologetics: Theory and Method

Units: 3
When Offered: Spring (even years)
An analysis of the various methods used, the logic employed, the philosophical assumptions utilized, and the potential effectiveness of the major approaches to the apologetic task currently debated by contemporary apologists.
Grade Type: Letter Grade
Prerequisite(s): PHI 213

PHI 482 - Bioethics

Units: 3
When Offered: Spring (odd years)
This course surveys the philosophical foundations for Christian morality and addresses a variety of contemporary bioethical issues, such as cloning, human enhancement, euthanasia, and disability.
Grade Type: Letter Grade

PHI 499 - Senior Project

Units: 3
When Offered: Spring
A senior capstone course designed to demonstrate the competence of Philosophy majors in the discipline and showcase their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.
Grade Type: Letter Grade
Prerequisite(s): Senior status

PHO 105 - The Camera

Units: 3
When Offered: Fall, Spring
Students will understand, and become comfortable, with the foundational use of the camera by understanding exposure through metering and the relationship between - ISO, Aperture, and Shutter Speed. Students will begin to implement foundational design elements through composition, and compression through different lens focal lengths. Students will produce and analyze photographs by employing professional photographic techniques and the introduction of a digital workflow.

Grade Type: Letter Grade
Fee: Additional course fee

PHO 110 - Commercial Photography

Units: 3
When Offered: Fall
This course surveys contemporary genres within Commercial Photography. While introducing the practical skills of production and conceptual development, students will work to plan and execute camera-based assignments in the areas of editorial and advertising photography.
Grade Type: Letter Grade
Prerequisite(s): PHO 105

PHO 120 - Fine Art Photography

Units: 3
When Offered: Fall
This introductory course explores the conceptual and expressive principals of Fine Art Photography through lectures, discussions, assignments and field trips. Students will submit their work for critique, refining the theoretical and practical skills needed to create meaningful imagery.
Grade Type: Letter Grade
Prerequisite(s): PHO 105

PHO 140 - History of Photography

Units: 3
When Offered: Fall, Spring
This course follows movements and themes in the history of photography from its inception at the turn of the 19th century to today. In this class, students will identify key works and discuss their significance in a historical context. On a more theoretical level, photography will be observed as cultural production that shapes personal and political ideology. Photographic examples will be presented from photojournalism, documentary, fine art, advertising, fashion and academia to more vernacular uses in everyday life. Through readings, discussions and assignments students will build the visual literacy needed to experience, understand and analyze images.
Grade Type: Letter Grade
Fee: Additional course fee

PHO 200 - Special Topics in Photography

Units: 3
When Offered: As offered
This course focuses on different topics in the field of photography each time it is offered.
Repeatable: May be repeated three (3) times for credit with change in topic
Grade Type: Letter Grade

PHO 250 - Post-Production

Units: 3
When Offered: Spring
Through this course students will develop the technical foundation needed to process and retouch images with Adobe Lightroom and Photoshop. Students will build a professional workflow utilizing digital asset management, image selection, and global adjustments with non-destructive methods. Further pixel adjustments will be made within Photoshop for advanced retouching.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): PHO 105

PHO 310 - Process and Practice

Units: 3
When Offered: Spring
This course further explores the medium of photography specific to commercial, fine art, and social practice. Students will begin focusing on a body of work specific to their genre of photography. Further refinement through technical demonstrations and critique will allow students to begin to define an artistic style that is viable within their intended marketplace.
Grade Type: Letter Grade
Prerequisite(s): PHO 350

PHO 330 - Visual Storytelling

Units: 3
When Offered: Fall
This course integrates a conceptual framework and narrative structure into the photographic process. Utilizing color, design and visual communication skills to evoke emotion, students will learn how narrative shapes messaging. The course supports students involved in a wide range of photographic disciplines where visual storytelling is critical to a work's reception.
Grade Type: Letter Grade
Prerequisite(s): PHO 310

PHO 332 - Studio Lighting

Units: 3
When Offered: Spring
This course will implement a practical workflow within a controlled space, utilizing the tools and techniques of studio photographers. Students will gain an understanding of light quality and how it relates to ideas, and the emotional depiction of a subject. Students will understand how to craft their lighting to the specific subject they are photographing. Labs will be hands-on, integrating professional studio practices for digital capture and utilizing industry-wide workflow standards related to the latest software and hardware.
Grade Type: Letter Grade
Prerequisite(s): PHO 105

PHO 350 - Digital Printing and Color Management

Units: 3
When Offered: Fall
This course presents students with the digital workflow techniques needed to produce archival photographs. File preparation, resolution selection, print-profiling, paper selection and soft-proofing techniques will be covered. Students will learn the techniques of digital color management by applying color profiles to produce archival prints for the purpose of promotional, gallery, and printed portfolios.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): PHO 250 or GDM 235

PHO 400 - Special Topics in Photography

Units: 3
When Offered: Spring
This course focuses on different topics in the field of photography each time it is offered.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade
Prerequisite(s): PHO 350

PHO 415 - Context and Narrative

Units: 3
When Offered: Spring
Students will apply their knowledge of photographic processes and visual storytelling to the development of a cohesive and professional body of work as their authentic voice. Emphasis is on advanced level conceptual development, contextual research, image making, and critique. Resulting in an approved proposal allowing them to proceed with their senior project.
Grade Type: Letter Grade
Prerequisite(s): PHO 310

PHO 432 - Location Lighting

Units: 3
When Offered: Fall
Students will be able to approach locations efficiently to determine what artificial lighting methods to introduce, to create technically refined photographs. While also introducing these techniques creatively to further demonstrate mastery of photography through the use of location lighting.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): PHO 332

PHO 433 - Studio Practice

Units: 3
When Offered: Fall
This course will address project cohesiveness, work quality, concept and process through critique and feedback. Students will apply all skills and theory learned to further define a contextual response to their photographic narrative. Students will demonstrate a detailed understanding of the photographic process including research, concept, design and documentation in preparation for their final presentation.
Grade Type: Letter Grade
Prerequisite(s): PHO 415

PHO 450 - Digital Asset Management

Units: 3
When Offered: Spring
Students will curate, control, and communicate their photographic library by gathering and assembling current assets in one collaborative location. Establishing digital workflow best practices for the entire asset life cycle, by integrating their image library with other applications and services.
Grade Type: Letter Grade
Prerequisite(s): PHO 350

PHO 485 - Photography Business

Units: 3
When Offered: Fall
Students will understand and develop the principles of running a successful photography business. With a hands on practical approach in relationship to; self promotion, marketing, accounting, copyright, permitting, contracts, artist representation, and the procurement of work.
Grade Type: Letter Grade
Prerequisite(s): PHO 415

PHO 498 - Photography Intensive

Units: 3
When Offered: Spring, Summer
Students will explore through the photographic medium - art, culture and sites of historical and contemporary significance. Emphasis is placed on independent project advancement, individualized instruction, and group critique on each student's project progress. Photography Intensive students will create a series of photographs working within the confines of shooting in a foreign location during the condensed semester. The course culminates in a group exhibition and photographic book.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

PHO 498G - Photography Intensive

Units: 3
When Offered: Spring, Summer
Students will explore through the photographic medium - art, culture and sites of historical and contemporary significance. Emphasis is placed on independent project advancement, individualized instruction, and group critique on each student's project progress. Photography Intensive students will create a series of photographs working within the confines of shooting in a foreign location during the condensed semester. The course culminates in a group exhibition and photographic book. Students registered in this section will participate in a global practicum experience during which the skills learned throughout the semester will be applied in an international setting.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Fee: Additional trip fee(s)
Prerequisite(s): Permission of the Dean

PHO 499 - Portfolio and Gallery

Units: 3
When Offered: Spring
Students will apply the skills necessary for the professional presentation of a completed body of work including editing, sequencing, printing, marketing, portfolio design, and gallery presentation.
Grade Type: Letter Grade
Prerequisite(s): PHO 433

PSC 133 - Survey of Physical Science

Units: 3
When Offered: Fall
A survey course designed to provide a foundation in the physical sciences by covering essential principles of motion and energy along with the structure and properties of matter. The application of physical science concepts to daily life will be emphasized.
Grade Type: Letter Grade
Prerequisite(s): MAT 095 or sufficient SAT or ACT score

PSC 133L - Survey of Physical Science Lab

Units: 1
When Offered: Fall
A laboratory experience designed to illustrate and reinforce physical science principles and to introduce basic physical science laboratory techniques.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): PSC 133

PSC 201 - Special Topics in Physical Science

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of physical science. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

PSC 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

PSC 401 - Special Topics in Physical Science

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of physical science. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

PSC 413 - Lab Techniques for Physical Science Teachers

Units: 3
When Offered: As offered
Development and practice of classical and modern lab procedures and philosophies including mathematical analysis. Practice, organization, and set up, to conduct various labs used throughout the physical sciences. Study of conformity to various lab situations, and how to improve and modernize existing or standard labs.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): PSC 133

PTH 100 - Introduction to Physical Therapy

Units: 3
When Offered: Fall
This course introduces the student to the field of physical therapy by covering the history and ethics of the profession as they relate to the healthcare system. The course addresses the development of the healthcare team, philosophy of rehabilitation, interviewing patients, inter-professional communication, cultural awareness, patient confidentiality, and the psychosocial impact of illness and injury. The scope of practice of the physical therapist assistant and basic documentation is emphasized.
Grade Type: Letter Grade
Prerequisite(s): Physical Therapist Assistant major

PTH 110 - Medical Terminology for the Physical Therapist Assistant

Units: 1
When Offered: Fall
This course offers students interaction with the dynamic language of healthcare. Through comprehensive study, exercises, and case studies, students will have the opportunity to be immersed in the words, abbreviations, and symbols used in healthcare.

Grade Type: Letter Grade
Prerequisite(s): Physical Therapist Assistant major

PTH 130 - Functional Kinesiology and Therapeutic Exercise

Units: 3
When Offered: Fall
This course covers the study and application of human movement and measurement. Anatomical function of muscle and muscle groups are discussed. Muscle activation with normal gait is presented. Developing skill competencies with manual muscle testing, goniometry, and posture are emphasized.
Grade Type: Letter Grade
Prerequisite(s): Physical Therapist Assistant major

PTH 140 - Basic Clinical Skills

Units: 3
When Offered: Spring
This course covers safe mobility, therapeutic exercise, and basic patient handling and assessment skills. Patient data collection and assessment is discussed. Developing skill competency with therapeutic exercise, positioning, draping, bed mobility, transfers, gait training, wheelchair management and mobility, vital signs, anthropometric measures, and aseptic techniques are emphasized.
Grade Type: Letter Grade
Prerequisite(s): PTH 100 and 110

PTH 150 - Preparation for Clinical Practice

Units: 1
When Offered: Spring
This course is designed to prepare the student for clinical experiences. Content will include reviewing the clinical handbook, Clinical Performance Instrument (CPI), and the clinical placement and assessment process. Written and oral communication skills specific to the clinical environment, professional behaviors, and clinical expectations are emphasized.
Grade Type: Letter Grade
Prerequisite(s): PTH 100, 110, and 130

PTH 170 - Physical Agents

Units: 3
When Offered: Spring
This course prepares the student for safe and effective application of physical agents and therapeutic massage for patient treatment. Mechanisms of action, indication, precautions, contraindications, and treatment procedures are covered. Pain assessment is introduced. Developing skill competency with biophysical agents, therapeutic massage, and skin assessment are emphasized.
Grade Type: Letter Grade
Prerequisite(s): PTH 100 and 110

PTH 200 - Special Topics in Physical Therapy

Units: 3
When Offered: Fall
This course addresses special topics within physical therapy practice. The role of the physical therapist assistant within the progression of the physical therapy plan of care is discussed. Pelvic health and health behavior and wellness are also presented. Developing skill competency within the areas of cardiopulmonary, environmental management and safety, pediatrics, and geriatrics are emphasized.

Grade Type: Letter Grade
Prerequisite(s): PTH 130, 140, 170, and 230

PTH 230 - Pathophysiology for the Physical Therapist Assistant

Units: 3
When Offered: Spring
This course discusses basic pathologic conditions and principles commonly treated in physical therapy. Etiology, signs, symptoms, clinical course, primary medical interventions, and implications for rehabilitation of disorders are presented.
Grade Type: Letter Grade
Prerequisite(s): PTH 100 and 110

PTH 240 - Advanced Clinical Skills

Units: 3
When Offered: Fall
This course explores theory and application of advanced skills within physical therapy practice. The role of the physical therapist assistant within the progression of the physical therapy plan of care is discussed. Dependent transfers and equipment, lymphedema care, and aquatic therapy are also discussed. Developing skill competency with prosthetics, orthotics, integumentary/wound care, and ergonomics are emphasized.
Grade Type: Letter Grade
Prerequisite(s): PTH 130, 140, and 170

PTH 255 - Clinical I

Units: 3
When Offered: Summer
This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. Students complete a full-time clinical affiliation at a facility assigned by the program faculty.
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Department Chair

PTH 260 - Orthopedics

Units: 3
When Offered: Fall
This course presents the effects of disease, disorders, and injuries of the musculoskeletal system, as well as orthopedic diagnoses encountered by the physical therapist assistant across the lifespan. Signs and symptoms, medical/surgical intervention, physical therapy treatment, documentation, and implications for rehabilitation are covered and applied. Developing skill competency with joint mobilization and pain assessment are emphasized.
Grade Type: Letter Grade
Prerequisite(s): PTH 130, 140, 170, and 230

PTH 265 - Clinical II

Units: 5
When Offered: Spring
This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. Students complete a full-time clinical affiliation at a facility assigned by the program faculty.
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Department Chair

PTH 270 - Neurology

Units: 3
When Offered: Fall
This course presents the effects of disease and trauma of the neurological system encountered by the physical therapist assistant with adults. Neurological interventions, therapeutic exercise, documentation, and treatment progressions are applied. Developing skill competency with arousal, mentation, and cognition levels, sensory assessment, and facilitation/inhibition techniques are emphasized.
Grade Type: Letter Grade
Prerequisite(s): PTH 130, 140, 170, and 230

PTH 275 - Clinical III

Units: 5
When Offered: Spring
This course provides students with the opportunity to perform delegated patient care responsibilities in a physical therapy clinical setting, with supervision. Students complete a full-time clinical affiliation at a facility assigned by the program faculty.
Grade Type: Pass/Fail
Prerequisite(s): Permission of the Department Chair

PTH 280 - Professional Integration

Units: 3
When Offered: Spring
This course incorporates student experiences from clinical courses into discussion, group activities, and case presentations. Students communicate, problem-solve, and present challenging cases and complicated professional situations within a group atmosphere. Students will develop a resume and a plan for obtaining a job after graduation. Students will prepare for the Physical Therapist Assistant licensure exam. Legal and ethical practices, professional success, and lifelong learning are emphasized.
Grade Type: Letter Grade
Prerequisite(s): PTH 255, 260, and 270

PHY 112 - The Physics of Hollywood with Lab

Units: 4
When Offered: Fall (odd years)
A study of optics, cameras, lighting, sound, analog vs. digital processes, polarization and the 3-D moving making process. The course is a very lab intensive class taught in a semi inquiry-based manner. The class and lab are heavily integrated. The course is a self contained class which includes some reviews of the math necessary to be successful in the class.
Grade Type: Letter Grade
Fee: Additional lab fee

PHY 113 - Astronomy

Units: 3
When Offered: Fall
A study of the earth, time, moon, sky, celestial mechanics, solar system, and the sidereal universe.
Grade Type: Letter Grade

PHY 113L - Astronomy Lab

Units: 1
When Offered: Fall
A study of the laws of physics related to the optics of telescopes. Observational labs, including remotely operating telescopes on mountain tops.

Grade Type: Letter Grade
Fee: Additional lab fee(s) (Field trips may require additional lab fees)
Pre- or Co- Requisite(s): PHY 113

PHY 115 - Physics for Architects with Lab

Units: 4
When Offered: Fall
A study of mathematical methods of physics, kinematics, forces, Newton's Laws, earthquakes, fluids, work, energy, power, momentum, heat and thermodynamics, electricity, waves, light, and sound.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): MAT 135, 145, or 245

PHY 122 - The Physics of Photography

Units: 3
When Offered: As offered
A study of the physical properties of the camera, predominantly optics. Emphasis placed on black and white, 35mm, exposing, developing and printing.
Grade Type: Letter Grade
Fee: Additional lab fee

PHY 125 - Physics of Sound and Music

Units: 3
When Offered: Fall (even years)
This course covers the basic physical principles of waves required to understand the phenomena of sound and music. We will discover the properties of waves, such as speed, frequency, wavelength, amplitude, and intensity. We will discuss how frequency relates to harmonics, pitch, and resonance. We will discuss diffraction, interference, and the Doppler Effect. We will discuss the different kinds of sounds produced by different kinds of musical instruments (strings, wind, brass, and the human voice). It is also recommended to concurrently take Physics of Sound and Music Lab.
Grade Type: Letter Grade
Prerequisite(s): MAT 115

PHY 125L - Physics of Sound and Music Lab

Units: 1
When Offered: Fall (even years)
This laboratory course will feature demonstration, examples, and hands-on laboratory activities to supplement the learning objectives of Physics of Sound and Music. These interactive laboratory based experiences will cover sound waves, pitch, loudness, timbre, harmonics, resonance, the human ear, and other topics related to Physics of Sound and Music. Time may also be dedicated to working out examples to develop physics problem-solving skills in a highly interactive setting.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): PHY 125

PHY 200 - Special Topics in Physics

Units: 1-3
When Offered: As offered
Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

PHY 201 - Physics for Engineers I with Lab

Units: 4
When Offered: Fall, Spring
This course covers topics such as units, vectors, motion (in one, two and three dimensions), Newton's laws of motion, work, kinetic and potential energy, momentum, impulse, collisions, conservation laws, dynamics of rotational motion, equilibrium, gravitation, and periodic motion. Six (6) hours per week of inquiry-based instruction.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): MAT 145 or a B or better in EGR 182
Pre- or Co- Requisite(s): MAT 245

PHY 203 - Physics for Engineers II with Lab

Units: 4
When Offered: Fall, Spring
This course covers topics such as fluids, temperature and ideal gas, electric charge and field, Gauss' Law, electric potential, capacitance and dielectrics, current, resistance and electromotive force, direct-current circuits, magnetic field and force, Ampere's and Faraday's laws, electromagnetic induction, inductance, alternating current circuits, and electromagnetic waves. Six (6) hours per week of inquiry-based instruction.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): PHY 201 and MAT 245

PHY 214 - Physics I

Units: 3
When Offered: Fall, Spring
A study of mechanics, heat and thermodynamics, waves, sound, and the mathematical methods of physics. Should be taken with PHY 214L - Physics I Lab.
Grade Type: Letter Grade
Prerequisite(s): MAT 145 or 245

PHY 214D - Physics I Discussion

Units: 1
When Offered: Fall, Spring
This discussion section is designed to be taken concurrently with PHY 214 - Physics I. Emphasis will be placed on problem solving and computational techniques, and is meant to reinforce topics in mechanics, heat and thermodynamics, waves, sound, and the mathematical methods of physics.
Grade Type: Pass/Fail
Concurrent Requisite(s): PHY 214

PHY 214L - Physics I Lab

Units: 1
When Offered: Fall, Spring
This laboratory course, designed to be taken concurrently with PHY 214 - Physics I, emphasizes scientific measuring and reporting techniques. Observational laboratories will reinforce topics in mechanics, including kinematics, Hooke's Law, momentum and inertia, and waves.
Grade Type: Letter Grade

Fee: Additional course fee
Pre- or Co- Requisite(s): PHY 214

PHY 224 - Physics II

Units: 3
When Offered: Spring
A continuation of Physics I, including a study of electricity, magnetism, electromagnetic waves, optics, and modern physics topics. Should be taken with Physics II Lab.
Grade Type: Letter Grade
Prerequisite(s): PHY 214

PHY 224D - Physics II Discussion

Units: 1
When Offered: Spring
This discussion section is designed to be taken concurrently with Physics II. Emphasis will be placed on problem solving and computational techniques, and is meant to reinforce topics in waves, optics, electricity, and thermodynamics.
Grade Type: Pass/Fail
Concurrent Requisite(s): PHY 224

PHY 224L - Physics II Lab

Units: 1
When Offered: Spring
This laboratory course, designed to be taken concurrently with Physics II, emphasizes scientific measuring and reporting techniques. Observational laboratories will reinforce topics in waves, optics, electricity, and thermodynamics.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): PHY 224

PHY 301 - Astronomy II

Units: 3
When Offered: Spring (odd years)
The main focus of the course is on complex concepts from extra-solar astrophysics (astronomy outside of our solar system), including star formation, stellar evolution, supernova and stellar remnants, black holes, galaxy formation, dark matter, the large-scale structure of the universe, and the Creation of the universe. The purpose of this course is to provide a broad baseline of conceptual understanding. Student will also learn how to analyze and understand new discoveries in astronomy as they are related directly to the professional astronomical community, in addition to understanding astronomy articles that are presented through more mainstream media.
Grade Type: Letter Grade
Prerequisite(s): PHY 113, 201, or 214

PHY 301L - Astronomy II Lab

Units: 1
When Offered: Spring (odd years)
This laboratory course focuses on studying the laws of physics related to astronomy. The purpose of this course is to give a broad experiential understanding of the process of analyzing data from telescopes, integrating real astronomical data with astronomical concepts such as the expansion of the universe and supernova explosion.
Grade Type: Letter Grade

Fee: Additional lab fee
Pre- or Co- Requisite(s): PHY 301

PHY 305 - Physics of Semiconductors

Units: 4
When Offered: As offered
An introduction to the underlying mechanism and the physical operation of semiconductor devices. This includes discussion of material properties, energy band theory, carrier behavior, and electronic transport. We'll apply this to understanding of junction diodes, bipolar junction transistors, and metal-oxide-semiconductor capacitors and field-effect transistors.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): MAT 343, and PHY 203 or 224

PHY 310 - Waves and Optics with Lab

Units: 4
When Offered: Spring (even years)
An advanced study of waves and optics, with explicit investigation into mechanical and electromagnetic waves. Topics include (but are not limited to): simple harmonic motion, superposition, dampening, forced oscillations, beats, elasticity, coupling, normal modes, polarization, constructive and destructive interference, single and double slit interference, diffraction gratings, lenses, ray optics, geometric optics, physical optics, beams, and Doppler effect. The course is a very lab intensive class taught in a semi inquiry-based manner. The class and lab are heavily integrated.
Grade Type: Letter Grade
Lecture: 3 hours **Lab:** 3 hours
Fee: Additional lab fee
Prerequisite(s): PHY 203 or 224

PHY 320 - Modern Physics

Units: 4
When Offered: Fall (even years)
An advanced study of modern physics theories. Topics include (but not limited to): relativity, photons, photoelectric effect, the Bohr-model, Heisenberg's uncertainty principle, Compton scattering, de Broglie waves, wave particle duality, wave packets, Schroedinger's equation, nuclear models, decay and reactions, Rutherford scattering.
Grade Type: Letter Grade
Lecture: 4 hours
Prerequisite(s): PHY 203 or 224. (Recommend: PHY 310)

PHY 399 - Independent Study

Units: 1-3
When Offered: As offered
This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.
Grade Type: Letter Grade

PHY 400 - Special Topics in Physics

Units: 1-4
When Offered: As offered
Various appropriate topics of different concentrations are offered each time. Student involvement in selection of topics is strongly encouraged.

Repeatable: May be repeated one (1) time for credit with change in topic
Grade Type: Letter Grade

POL 101 - Introduction to the Political Science Discipline

Units: 1
When Offered: Fall
This course is designed to introduce Political Science majors to the academic field of Political Science and the Political Science Program. The course provides an overview of each subfield in Political Science and the curriculum options for studying that subfield. The course encourages students to examine their own philosophical presuppositions as they learn to think about the study of politics from a Christian perspective. There is also substantial opportunity for building connections with faculty and fellow majors.
Grade Type: Pass/Fail

POL 200 - Special Topics in Political Science

Units: 3
When Offered: As offered
This course examines special topics in political science. Topics are announced each time the course is offered.
Repeatable: May be repeated two (2) times for credit with change in topic
Grade Type: Letter Grade

POL 213 - American Government

Units: 3
When Offered: Fall, Spring, & OPS
The course provides an introductory overview of the American political system. It begins with a discussion of the principles of the Declaration of Independence, Constitution, and Bill of Rights and an examination of their impact on the country. It also covers the avenues and means of democratic citizenship and political influence in American politics. The course further examines the major political institutions in the United States: Congress, Presidency, Bureaucracy, and Courts. In order to assess the impact of government on society, the course concludes with an exploration of public policy. (Meets state requirement in United States Constitution and California Government.)
Grade Type: Letter Grade

POL 223 - State and Local Government

Units: 3
When Offered: Fall, Spring, & OPS
This course studies the place and responsibilities of state and local governments in the United States and how they relate with other units of government. This includes an assessment of the citizenship and participation in state and local politics, both at the individual and collective level; and then an examination of state political institutions, such as governors, state legislatures, state courts, and administration. The course also covers city and county governments, and other local units of government. Although it is comparative, special attention is given to California politics.
Grade Type: Letter Grade

POL 250 - Introduction to International Politics

Units: 3
When Offered: Spring
This course begins with an examination of the relevant international relations paradigms and evaluates several foreign policy decision-making models. The course considers important actors within the international system, such as intergovernmental and nongovernmental organizations and concludes with an examination of contemporary international relations issues, such as interstate war, economic development, human rights, and trade.
Grade Type: Letter Grade

POL 255 - Introduction to Comparative Politics

Units: 3
When Offered: Fall & OPS
The course begins with an overview of factors (constitutions, political systems, and political ideology) political scientists use to understand and explain variations in policy outcomes at the national level. The course also examines actors (political parties, interest groups, social movements, and public opinion), processes (elections), and political institutions from a comparative perspective. The course concludes with an overview of the public policy process and examination of specific policy areas.
Grade Type: Letter Grade

POL 323 - Political Parties and Interest Groups

Units: 3
When Offered: Spring (odd years)
The study of the nature, development, organization, function, and methods of political parties. Also designed to furnish an understanding of the pluralist nature of the American system through the dynamics of group action and their methods and impact.
Grade Type: Letter Grade

POL 330 - Law and Literature

Units: 3
When Offered: Fall (odd years)
This course is designed to examine the role and function of narrative in law, and the role and function of law in major works of literature, to understand better both law and literature.
Grade Type: Letter Grade

POL 350 - International Relations Theory

Units: 3
When Offered: Fall (even years)
This course begins with an in-depth examination of the dominant and alternative theories found within the international relations literature. Having established a solid theoretical foundation, the course will consider important disagreements between the dominant theories (e.g., the structure of the international system) and the corresponding predicted outcomes (e.g., conflict or cooperation within the international system). The course concludes with an examination of several contemporary international relations issues, such as globalization and terrorism.
Grade Type: Letter Grade

POL 390 - Congress and the Presidency

Units: 3
When Offered: Spring (even years)
The study of the place, responsibilities, and functions of Congress and the presidency in American politics is covered. This includes congressional organization and behavior, congressional elections, party leadership, congressional rules and procedures, and the committee system, with its effect on policy. The presidency roles, powers, and functions are also examined. The president's relationship with both the media and public, other branches, presidential character and leadership are included. Both branches are examined in light of checks and balances.
Grade Type: Letter Grade

POL 395 - Political Economy

Units: 3
When Offered: Fall (odd years) & OPS
This course explores the relationship between the economy and politics and provides both a description and assessment

of the economy. This entails an overview of economic theory, macroeconomics, savings, investments, microeconomics and markets, inflation, monetary policy, international economics and globalization, and the role of the private sector and government.
Grade Type: Letter Grade

POL 399 - Independent Studies

Units: 3
When Offered: As offered
Independent study of a specific area of political science not offered by the department. This allows a student to explore a specific area of political science on an independent basis. It is directly supervised by specific faculty in the program and has specific timetables and course requirements.
Grade Type: Letter Grade

POL 400 - Special Topics in Political Science

Units: 3
When Offered: As offered
This course examines special topics in political science. Topics are announced each time the course is offered.
Repeatable: May be repeated two (2) times for credit with change in topic
Grade Type: Letter Grade

POL 401 - Special Topics in Government

Units: 3
When Offered: As offered
This course examines special topics in government. Topics are announced each time that the course is offered.
Repeatable: May be repeated two (2) times for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): POL 213

POL 415 - World Geography

Units: 3
When Offered: Fall, Spring, & OPS
This course studies the world's geographic areas and the outstanding human, social, and physical features of realms and regions. In doing so, special attention is given to the more important features of histories, societies, cultures, and religions of the people living in the region. It also examines the relationship between human life and natural environment. The purpose is to help students better understand the world, our relationship with the environment, and human connections around the globe.
Grade Type: Letter Grade

POL 423 - Classical Political Philosophy

Units: 3
When Offered: Fall (odd years)
This course examines the origin of Western political, social, and legal thought in order to understand the present through the great political works of the past. It begins in ancient Greece in early democratic Athens and moves through Socrates, Plato, and Aristotle. From there, the course explores classical Rome, focusing on Polybius and Cicero. Since the advent of Christianity shapes the development of medieval political thought, the political thought of St. Augustine, John of Salisbury, St. Thomas Aquinas, Marsilio of Padua, Dante, and Thomas More are discussed.
Grade Type: Letter Grade

POL 425 - Modern Political Philosophy

Units: 3
When Offered: Spring (even years)
This course entails a comparative study of modern social, legal, and political philosophy, from the Renaissance toward the present by focusing on the great works of the Western traditions, including Machiavelli, Hobbes, Locke, Rousseau, Montesqueie, Kant, Hegel, Bentham, Marx, Mill. The course examines the relationship between these various political philosophers and the modern political world.
Grade Type: Letter Grade

POL 427 - American Political Theory

Units: 3
When Offered: Fall (even years)
This course provides an exploration of the founding of the American Republic. It begins with the colonial period, noting the relationship between religion, liberty, and politics, and then moves to ideas that shaped the American Revolution. From there it analyzes the discussions on the Constitution by both the Federalists and the Antifederalists. The course also examines the discussions surrounding the new Republic and the growth of the nation, including the struggles regarding individualism, liberty, equality, race, gender, wealth, economic regulation, and community responsibility.
Grade Type: Letter Grade

POL 429 - Critical Political Philosophy and Postmodernism

Units: 3
When Offered: Spring (odd years)
This course examines 20th century responses to modernity and its political and social theories. It focuses on continental philosophers and relates their ideas to contemporary society and politics. It begins with the Frankfurt School of critical theory and its criticisms of modern culture, and then moves from Nietzschean and Heideggerian thought to the hermeneutic theory of Gadamer and Ricoeur. After this, the course assesses the political relevance of the poststructuralism of Foucault, Derrida, and Lyotard. It concludes with Habermas' discourse ethics and deliberative democracy.
Grade Type: Letter Grade

POL 431 - Christianity and Citizenship

Units: 3
When Offered: Spring
This goal of the course is the development of a Christian perspective toward politics. The course begins with an examination of the important role that Christianity played in the founding of the United States. The course carefully considers a number of political worldviews and ideologies from a Christian perspective. The course analyzes the impact of Christianity on political culture and behavior in the United States. Lastly, the course introduces students to the duties and obligations of American Christians in the arena of democratic politics.
Grade Type: Letter Grade
Prerequisite(s): Political Science major and Junior/Senior status

POL 435 - Campaigns and Elections

Units: 3
When Offered: Fall (even years)
The course analyzes the dominant role political parties played in the American political system in the past. The course explores the decline of American political parties in recent decades. The course considers the increasing importance of campaign consultants and interest groups. The course examines the consequences of the shift in the roles played by political parties, campaign consultants, and interest groups on the American political system. Since the nature of political campaigns strongly impacts the political agenda of successful candidates once they take office, the course devotes considerable attention to the role of campaign issues in mobilizing key groups of voters as well as the use of campaign strategies and tactics aimed at achieving electoral success.
Grade Type: Letter Grade

POL 437 - Globalization

Units: 3
When Offered: Fall (even years)
The course provides a critical assessment of political economy with a special emphasis on the increasing pace of globalization. The course begins with an overview of economics, which is the study of how human beings cope with the problem of provisioning themselves. After discussing the relevant economic principles, the course examines the causes and consequences of economic globalization.
Grade Type: Letter Grade

POL 439 - International Conflict

Units: 3
When Offered: Fall (odd years)
The course examines many theoretical explanations for international conflict, such as religious differences, groupthink, territorial demands, domestic politics, misperception, shifts in the balance of power, and ideological differences. Following an extensive discussion of these theories, the course analyzes relevant case studies to determine the validity and relevance of the theoretical explanations. The course concludes with an examination of the diplomatic and political options available to states and intergovernmental organizations seeking to reduce the intensity and frequency of wars in the 21st century.
Grade Type: Letter Grade

POL 440 - Pre-Law Internship

Units: 1-3
When Offered: Fall, Spring, Summer
Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair and Junior/Senior status

POL 443 - Diplomatic History of the United States

Units: 3
When Offered: Spring (odd years) & OPS
This course is a history of the diplomatic relations of the United States and the development of the leading principles of foreign policy set within the context of an analysis of various geopolitical models.
Grade Type: Letter Grade

POL 444 - International Law

Units: 3
When Offered: Fall (odd years) & OPS
This course will examine the development of modern international law. The course will consider the foundations of customary and conventional international laws, as well as treaties that bear upon the conduct of members of the international community.
Grade Type: Letter Grade

POL 445 - American Institutions and Processes Internship

Units: 1-3
When Offered: Fall, Spring, Summer
Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge

acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair and Junior/Senior status

POL 446 - International Relations Internship

Units: 1-3
When Offered: Fall, Spring, Summer
Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair and Junior/Senior status

POL 447 - Public Administration Internship

Units: 1-3
When Offered: Fall, Spring, Summer
Students enrolled in this course will gain the professional experience valued by employers by utilizing knowledge acquired as Political Science majors in volunteer or paid internship positions. Students will perform relevant tasks under the direction of the Internship Site Supervisor. Students will identify and explore connections between their internship experiences and academic coursework.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair and Junior/Senior status

POL 450 - Research Methods in Political Science

Units: 3
When Offered: Fall & OPS
This course examines the research methods used in Political Science. Topics addressed in the course include the philosophical and theoretical foundations of social science research; ethical issues related to research; research design; descriptive and inferential statistic analysis; survey, qualitative field, unobtrusive, and evaluation research; and qualitative and quantitative data analysis with the Statistical Package for the Social Sciences (SPSS). Students will obtain the statistical knowledge necessary to read and critique scholarly articles and books. In addition, the course will prepare students to use statistical methods in their own research in graduate school or in their professional careers.
Grade Type: Letter Grade

POL 454 - International Organizations

Units: 3
When Offered: Spring (even years)
The course begins with an examination of the relevant empirical and theoretical studies on International Organizations (IOs), with an emphasis on Intergovernmental Organizations (IGOs) in the global arena. Having established solid empirical and theoretical foundations, the course will explore the impact of international organizations on several issue areas. The second principal portion of the course will utilize the same approach in order to gain a more comprehensive understanding of international non-governmental organizations (INGOs).
Grade Type: Letter Grade

POL 456 - Contemporary Legal Issues

Units: 3
When Offered: As offered

This course is an examination of the ever-changing legal climate of law enforcement with special emphasis upon constitutional issues.
Grade Type: Letter Grade

POL 471 - Terrorism

Units: 3
When Offered: Spring (odd years)
This course examines the origin, political goals, means, and long-term strategy of terrorism. The course distinguishes between terrorist organizations with and without state support. The course also differentiates between domestic and regional/international terrorism. The course utilizes case studies of several terrorist organizations, such as Al Qaeda, to illustrate the emergence of terrorism as a significant threat. The course concludes with an examination of the military and political options available to governments interested in reducing or eliminating the threat posed by terrorism.
Grade Type: Letter Grade

POL 484 - Constitutional Law I

Units: 3
When Offered: Fall (even years)
The course facilitates an understanding of the Constitution and its relationship to the three branches of government and their functions and a greater appreciation of the role of the court in affecting their balances. Included aspects of study are the court system, judicial review, presidential power, Congress and commerce, Federalism, contracts, due process, and civil liberties.
Grade Type: Letter Grade

POL 485 - Constitutional Law II

Units: 3
When Offered: Fall, Spring, & OPS
This course studies the most important decisions of the Supreme Court on individual rights and the conflicts from which they have arisen, which means examining the trinity of individual values and rights in American civil liberties -- freedom, due process, and equality.
Grade Type: Letter Grade

POL 499 - Senior Project

Units: 3
When Offered: Spring
A senior capstone course designed to demonstrate the competence of Political Science majors in the discipline and showcase their research and writing skills. The portfolio produced by the student in completion of this project must conform to the departmental guidelines for Senior Projects.
Grade Type: Letter Grade
Prerequisite(s): POL 450 and Senior status

PRD 200 - Special Topics in Product Design

Units: 1-6
When Offered: As offered
This course explores and presents selected topics in product design.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade

PRD 350 - Human Centric Design

Units: 3
When Offered: As offered
This course examines the principles and practices of human-centered design processes and products within product design. An emphasis is placed on the introduction and practiced application of empathetic design research methods and design strategies to the product design process.
Grade Type: Letter Grade

PRD 400 - Special Topics in Product Design

Units: 1-6
When Offered: As offered
This course explores and presents non-studio based selected topics in product design.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade

PRD 401 - Special Topics in Product Design Studio

Units: 1-6
When Offered: As offered
This course explores and presents studio based selected topics in product design.
Repeatable: May be repeated with change in topic for a maximum of twelve (12) units of credit
Grade Type: Letter Grade
Prerequisite(s): Permission of the Dean

PRD 411 - Directed Product Design Lab

Units: 4
When Offered: As offered
This lab based course utilizes the creative process and methods in product design through the design of projects escalating in scale and complexity. Topics include empathetic research methods, environmental factors or ergonomics, modeling, form giving, prototyping, and visual communication.
Repeatable: May be repeated for a maximum of twelve (12) units
Grade Type: Letter Grade
Prerequisite(s): DES 110, EGR 263, and GDM 150

PST 100 - Strategies for Success

Units: 2
When Offered: OPS
The course is designed to prepare students for a successful transition to college coursework. Strategies, practical skills and resources for addressing anticipated personal and academic challenges will be identified. Students will be introduced to skills for proper research paper writing requirements, formatting and personal laptop computer use. Connections between students' goals and campus/program offerings will be reinforced.
Grade Type: Letter Grade

PST 300 - Career and Professional Development

Units: 3
When Offered: OPS
This course examines and prepares students for a successful transition from undergraduate studies to graduate level coursework. This course provides students with an opportunity for assessment of career interests and capabilities, initiation and implementation of a personal development plan (PDP) or career portfolio, and feedback on personal and career development. Strategies, practical skills and resources for addressing graduate admission requirements, and grad school expectations are addressed. Advanced computer skills in excel, PowerPoint, Word, LiveText capstone portfolio,

and e-bray will be included.
Grade Type: Letter Grade

PST 317 - Ethical and Biblical Principles for Leadership

Units: 3
When Offered: OPS
This course evaluates the principles for practicing ethical judgments and behavior that confront those in leadership positions. Students will evaluate various ethical frameworks and survey the Bible to explore and develop principles and habits for Biblically-based leadership practices. The course will also compare Biblical principles of leadership with the contemporary literature on leadership and ethics.
Grade Type: Letter Grade

PST 320 - Leadership Theory and Practice

Units: 3
When Offered: OPS
The purpose of this course is to equip students with the skills necessary for successful leadership in public and private organizations. Emphasis is on assessment of personal growth needs and enhancement of administrative skills including communication, decision-making, motivation, leadership styles, and team building. Experiential class work will be utilized in conjunction with classic and current organizational literature so that students can appreciate the bridge linking theory and practice.
Grade Type: Letter Grade

PST 405 - Cross-Cultural Leadership

Units: 3
When Offered: OPS
This course examines the impact of culture on concepts of leadership, values, expectations, and patterns of communication to demonstrate the importance of leading with cultural sensitivity and to assist students in developing their own strategies for effectively communicating and negotiating with individuals from varied cultures. Study is also devoted to the development and current conditions of minority/majority relations through the study of sociopolitical and economic causes; consequences of prejudice and discrimination; stereotypes and realities.
Grade Type: Letter Grade

PST 410 - Organizational Development

Units: 3
When Offered: OPS
This course is an in-depth study of organization-wide strategies and tactics to improve organizational life and effectiveness. This course evaluates the principles and techniques for developing and improving organizations from a holistic management approach. The course will help students develop the knowledge and skills to work with the internal and external factors that impact organizational development and change in a global environment.
Grade Type: Letter Grade

PST 420 - Decision-Making

Units: 3
When Offered: OPS
The course examines and critiques several prominent decision-making models, such as Groupthink, Rational Actor, Governmental Politics, and Organizational Process. The course will also explore steps that leaders in the public and private sector can take in order to avoid flawed decision making.
Grade Type: Letter Grade

PST 430 - Conflict Resolution and Negotiations

Units: 3
When Offered: OPS
This course equips students with a framework to systematically evaluate the sources and stages of conflict in organizations. Students will develop the requisite frameworks and skills in principled negotiations to use conflict constructively to promote organizational and personal development.
Grade Type: Letter Grade

PSY 120 - Lifespan Development for the Health Professions

Units: 3
When Offered: Fall, Spring, Summer
This course is an introduction to lifespan development which incorporates the physical, cognitive, psychosocial, and spiritual growth of individuals from conception through older adulthood with application to health care.
Grade Type: Letter Grade
Prerequisite(s): Declared Communication Sciences and Disorders, Health Education, Nursing, or Pre-Nursing major

PSY 201 - Special Topics in Psychology

Units: 3
When Offered: As offered
An in-depth seminar on a selected topic within Psychology.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 213 - General Psychology

Units: 3
When Offered: Fall, Spring, & OPS
This introductory course is a survey of the processes of adjustment, growth, learning, remembering, perception, sensation, socialization, and emotions. It is meant to better equip students to understand and articulate their own life experiences, as well as improve their understanding of the behavior of others. This course is a prerequisite to all other courses in Psychology.
Grade Type: Letter Grade

PSY 301 - History and Systems of Psychology

Units: 3
When Offered: Fall, Spring, & OPS
This course is an overview of the major schools of thought in psychology presented in historical, philosophical and scientific context. The methods of inquiry, terminology and theoretical systems of historical and contemporary psychology will be surveyed. The primary goal is to understand the connections and progressions of psychology throughout its development.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 305 - Developmental Psychology: Child

Units: 3
When Offered: Fall (even years)
This course examines the principles of psychological, cognitive, physical, spiritual and social development from conception to adolescence. A Biblical view of growth and change throughout these developmental periods will be addressed.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 315 - Developmental Psychology: Adolescence and Adulthood

Units: 3
When Offered: Spring (even years)
This course examines the principles of psychological, cognitive, physical, spiritual and social development from late childhood to late adulthood. A Biblical view of growth and change throughout these developmental periods will be addressed.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 320 - Life-Span Development

Units: 3
When Offered: Fall, Spring, & OPS
The course addresses principles of psychological development across time and culture. Students will understand universal stages of human development, influences on individual differences and the impact of nature and nurture. The course views human development as a unit of interrelated parts, concentrating on the relationships between the mind, body, and the socio-cultural context. Specific consideration is given to issues of integration, culture, and Biblical worldview.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 322 - Theories of Personality

Units: 3
When Offered: Fall, Spring, & OPS
This course is a survey of theories of personality emphasizing various viewpoints, unique theoretical perspectives, functions, and development of basic attitudes and belief systems that influence behavior throughout the life span. The course equips students to actively integrate faith (i.e., biblical principles) with the theories discussed.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 325 - Tests and Measurements

Units: 3
When Offered: Fall, Spring, & OPS
This course is a survey of the construction, application, interpretation and evaluation of psychological tests. Theory and principles related to psychological assessment and testing will be examined. Tests used to measure general mental abilities, specific abilities and aptitudes, personality, interests and attitudes are surveyed.
Grade Type: Letter Grade
Prerequisite(s): PSY 213 and BEH 350 or 383

PSY 328 - Cognitive Psychology

Units: 3
When Offered: Fall, Spring, & OPS
This course provides an introduction into the structure and processes of the mind, focusing on topics including perception, attention, memory, decision-making, and consciousness. Students will engage with research examining cognition from a behavioral, information-processing, and a physiological perspective. Additionally, students will engage with the philosophical/epistemological assumptions in the study of cognition, with relevant applications in domains such as artificial intelligence, criminal justice, and theology.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 335 - Group Dynamics

Units: 3
When Offered: As offered
A study in which personal experience in a group is used to aid individuals in becoming more aware of themselves and the manner in which they affect others and in turn are affected by others. There is some consideration of the various types of groups and group processes.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 338 - Sensation and Perception

Units: 3
When Offered: Fall (even years)
This course is a general introduction to the scientific study of sensory processes and perceptual phenomena. The course explores how brain processes facilitate representation for psychological experiences, as well as the impact of multi-modal perceptual processes.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 345 - Abnormal Psychology for Nurses

Units: 3
When Offered: Fall, Spring
A study of the dynamics, cultural implications, diagnostic symptoms of abnormal behavior including neuroses, psychoses, personality disorders, psychosomatic reactions and other abnormal behavioral patterns. Textual and lecture attention will be given to the relationship of etiology and treatment from psycho-physiology and psycho- pharmacology perspectives. School of Behavioral Science majors may not take this course for credit toward their major.
Grade Type: Letter Grade
Prerequisite(s): Nursing major

PSY 346 - Abnormal Psychology

Units: 3
When Offered: Fall, Spring, & OPS
Study of the dynamics, cultural implications and prevention of abnormal behavior including neuroses, psychoses, character disorders, psychosomatic reactions and other abnormal personality patterns. Textual and lecture attention will be given to the impact of the environment and oppressed populations in relation to abnormal behavior.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 350 - Introduction to Forensic Psychology

Units: 3
When Offered: Spring
This course is designed to introduce students to the areas and issues that define forensic psychology to instill a broad understanding of the field. This broad understanding will include the areas of psychology, law, criminal justice, and forensic mental health. Students will gain a basic knowledge and understanding of the role of psychologists and application of psychological principles within the criminal justice system.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 360 - Sports Psychology

Units: 3
When Offered: Fall
This course describes the application of psychological concepts to sports and exercise. Emphasis is placed on issues of

motivation, emotion, associative learning, imagery, and arousal regulation in regards to their influence on athletic performance and goal achievement. Included in this will be a discussion of the methodologies used to examine sports psychology. This is a hands on course; students should expect to be involved in activities that require light to medium physical activity.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 376 - Art Therapy

Units: 3
When Offered: Fall (even years)
This course is an introduction to the field of art therapy. The modern theories, methods and systems of art therapy will be surveyed. Emphasis is placed on practical application of art therapy concepts as well as the development of specific art therapy skills.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 388 - Industrial and Organizational Psychology

Units: 3
When Offered: Spring
This course is designed to provide an introduction to the field of Industrial and Organizational Psychology. Building upon introductory psychology and business principles, special emphasis is placed on understanding people and systems within the context of work. Employee motivation, leadership development, and change management are key areas explored in this course. Attention is also given to a critical examination, from a Christian worldview, of systemic justice issues in the workplace.
Grade Type: Letter Grade

PSY 399 - Independent Study

Units: 3
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 401 - Special Topics in Psychology

Units: 3
When Offered: As offered
An in-depth seminar on a selected topic within Psychology.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 404 - Psychopathic Mind

Units: 3
When Offered: Spring
The professional seminar introduces students to the process and techniques of investigation and psychological profiling of serial murderers, serial rapists, and terrorists.
Grade Type: Letter Grade
Prerequisite(s): ANT 225, PSY 213, or SOC 213; Senior status and permission of the Dean

PSY 422 - Theories of Counseling

Units: 3
When Offered: Fall, Spring, & OPS
A survey of modern theories of therapeutic counseling with emphasis on gaining an understanding of the psychological principles underlying these methods.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 440 - Internship in Human Services

Units: 3
When Offered: Fall, Spring
A practical application of basic psychological principles in community or campus responsibilities under professional supervision.
Grade Type: Pass/Fail
Fee: Additional testing fee
Prerequisite(s): PSY 213 and permission of the Dean

PSY 443 - Social Psychology

Units: 3
When Offered: Fall
This course is an examination of the psychological impact of the customs, norms, institutions, and groups upon individual behavior as influenced by social interaction.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 448 - Human Memory

Units: 3
When Offered: As offered
An introduction to the theories, research techniques, and empirical evidence regarding human memory. Topics to be included are short-term and long-term memory, theoretical models for remembering and forgetting, amnesia, autobiographical memory, repression, storing knowledge, eyewitness testimony, childhood memory, memory and aging. Emphasis on how these aspects of memory influence human behavior.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 453 - Psychology of Learning

Units: 3
When Offered: Fall (odd years)
A study of learning processes in light of the various systems of learning theory and major research evidence. Through examination of psychological perspectives, theoretical constructs, and various noteworthy behavioral scientists, students gain a further understanding of the principles of how humans, and other species, learn.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 458 - Motivation and Emotion

Units: 3
When Offered: Spring (odd years)
This course is an introduction to the theoretical, behavioral, and physiological aspects of emotion and motivation in humans. The role of motivation and emotion across domains such as health, education and well-being will be considered, with attention to biological, psychological, and social influences.

Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 459 - Dynamics of Religious Experience

Units: 3
When Offered: As offered
This course is an examination of the social psychological significance of religious experiences and practices viewed from their personal, cultural, and institutional aspects.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 473 - Psychophysiology

Units: 3
When Offered: Fall, Spring, & OPS
This course is an introduction to the capacity, limitations, and complexities of the human brain and its relationship to the neural and endocrine processes underlying brain function and behavior.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

PSY 495 - Research Project

Units: 1-4
When Offered: As offered
Undergraduate students will participate in an independent research project in psychology, including the development of a research procedure, gaining IRB approval for the research, data collection, data analysis, and/or research write-up.
Grade Type: Letter Grade
Prerequisite(s): PSY 213 and permission of the Dean

PSY 498 - Grief and Loss Counseling

Units: 1
When Offered: Spring
A seminar presentation of approaches to grief and loss and its effect on individuals and families.
Grade Type: Pass/Fail
Prerequisite(s): PSY 213

PAD 451 - Executive Leadership and Management

Units: 3
When Offered: Fall (odd years)
This course introduces students to the executive and management skills necessary for successful leadership in public organizations. Emphasis is on assessment of personal growth needs and enhancement of administrative skills, including communication, decision-making, motivation, leadership styles, and team building. (This course does not meet requirements for general education).
Grade Type: Letter Grade

PAD 452 - Organizational Theory and Design

Units: 3
When Offered: OPS
Students will use classic and current literature to examine the fundamental questions guiding organization theory in public administration with an emphasis on reconciling democracy with bureaucratic principles and behavior.
Grade Type: Letter Grade

PAD 453 - Administrative Law and Bureaucracy

Units: 3
When Offered: Spring (even years)
This course examines the place and impact of executive agencies on the formation and implementation of administrative law and regulation in the United States. This includes an overview of the administrative process, a discussion of administrative power, and bureaucratic organization. The course then examines the steps, stages, and participants of the administrative process, such as delegation of authority, administrative rule making, agency adjudication, and judicial review. The course concludes with a discussion of tort liability and sovereign immunity, the relationship between the bureaucracy and the other branches, and administrative reform.
Grade Type: Letter Grade

PAD 465 - Policy Process and Analysis

Units: 3
When Offered: Spring (even years) & OPS
This class examines policy-making theory and practice in the United States. Theoretical models studied include rational, incremental, and institutional, group, elite, public choice, and game theory. Policy areas covered include civil rights, criminal justice, health, and welfare, education, environmental protection, economic policy, and national defense.
Grade Type: Letter Grade

PAD 490 - Contemporary Issues in Public Administration

Units: 3
When Offered: OPS
This course uses case studies to examine the history and scope of public administration in the United States. An emphasis is placed on both practice and theory, financial administration, problems of management, administration organization and behavior, decision-making, and intergovernmental relations.
Grade Type: Letter Grade

PAD 491 - Public Personnel Management

Units: 3
When Offered: Fall (even years) & OPS
The course includes theory and current practices in personnel management at the local, state, and national levels of government. Topics covered include the history and development of public personnel management, the constitutional dimensions of employment law, employee training and development, and current human resource issues such as affirmative action, sexual harassment, and cultural diversity. (This course does not meet the POL general education requirement).
Grade Type: Letter Grade

PAD 493 - Principles of Public Administration

Units: 3
When Offered: Spring (odd years)
This course examines the scope of public administration. Emphasis on practice as well as theory in personnel administration, financial administration, problems of management, administrative organization, merit systems, and intergovernmental relations by the use of case studies.
Grade Type: Letter Grade

PRL 202 - Introduction to Public Relations

Units: 3
When Offered: Fall, Spring

This course will provide an introduction to the historical, theoretical and practical aspects of public relations with focus on the role of public relations in society, as well as an examination of the communication planning process.
Grade Type: Letter Grade

PRL 205 - Historical and Theoretical Foundations of Public Relations

Units: 3
When Offered: OPS
This course will examine the historical foundations of the field of public relations including communication and public relations theories that guide the practice. Students will learn practical application of various theories and practices including APR (Accreditation In Public Relations) standards.
Grade Type: Letter Grade

PRL 300 - Public Relations

Units: 3
When Offered: Fall, Spring, & OPS
Principles, history and professional practice of public relations and the writing and production of materials for special events, newsletters, and brochures.
Grade Type: Letter Grade

PRL 302 - Public Relations Writing

Units: 3
When Offered: Fall
This course will provide students with practical application of public relations writing process for various media with focus on targeting public using research, audience analysis, and message design.
Grade Type: Letter Grade

PRL 310 - Public Relations Issues and Crisis Management

Units: 3
When Offered: Spring
This course will examine case studies and best practices in issues and crisis management in the field of public relations. Reputation management, effective management of issues and crisis will be taught based on practical application of various proven strategies and tactics including APR (Accreditation In Public Relations) standards for issues and crisis management.
Grade Type: Letter Grade

PRL 320 - Business Literacy for Public Relations Professionals

Units: 3
When Offered: Fall
This course will examine business and finance terms and basic businesses practices as they relate to the field of public relations. Students will learn practical application of budgets, finance principles and best practices as they relate to public relations work and in line with APR (Accreditation In Public Relations) standards.
Grade Type: Letter Grade

PRL 402 - Public Relations Research and Campaigns

Units: 3
When Offered: Spring & OPS
This course will provide students with the basic skills and practical experience to plan, develop, execute and evaluate public relations campaigns through case study analysis and actual campaign development. This will be achieved

through case study analysis and team-based campaign development.
Grade Type: Letter Grade

PRL 430 - Principles of International Public Relations

Units: 3
When Offered: OPS
This course examines principles of practicing public relations in a global setting. Students will learn practical application of various theories regarding cultural identity, research and planning campaigns for global audiences. APR, Accreditation In Public Relations standards, will be emphasized as they relate to the practice of international public relations.
Grade Type: Letter Grade

RAD 210 - Introduction to Radiologic Science Practice

Units: 3
When Offered: Fall
This course is an introduction to the role of the Radiologic Technologist. Students will learn about the profession, including professional roles, ethics, standards, professional development, regulation, accreditation, quality management, and legal issues.
Grade Type: Letter Grade
Prerequisite(s): BIO 146, 153, 153L, 163, 163L, 173, KIN 212, PHY 214, PHY 214L, and STA 144
Concurrent Requisite(s): RAD 220

RAD 220 - Patient Care in Radiologic Sciences

Units: 3
When Offered: Fall
This course introduces the concepts of optimal patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, as well as infection control procedures using standard precautions.
Grade Type: Letter Grade
Concurrent Requisite(s): RAD 210

RAD 320 - Principles of Imaging

Units: 3
When Offered: Fall
In this course students will establish a defined knowledge base of factors that govern the radiographic image production process.
Grade Type: Letter Grade
Prerequisite(s): Radiologic Science major

RAD 325 - Radiographic Procedures with Lab

Units: 4
When Offered: Fall
In this course, students will develop the knowledge base necessary to perform standard imaging procedures and special studies. Consideration is given to the evaluation of optimal diagnostic imaging.
Grade Type: Letter Grade
Prerequisite(s): Radiologic Science major

RAD 335 - Radiologic Procedures II with Lab

Units: 4
When Offered: Spring
In this class students will develop the knowledge necessary to perform head, chest, torso, abdominal images, and fluoroscopy procedures. Consideration is given to the evaluation of optimal diagnostic imaging.
Grade Type: Letter Grade
Prerequisite(s): Radiologic Science major and RAD 325

RAD 345 - Radiologic Procedures III with Lab

Units: 4
When Offered: Fall
In this class students will obtain the knowledge necessary to perform advanced imaging of the head, abdomen, chest, fluoroscopy, trauma exams, operating room exams, and have a special procedures rotation. Consideration is given to the evaluation of optimal diagnostic imaging.
Grade Type: Letter Grade
Prerequisite(s): Radiologic Science major and RAD 335

RAD 350 - Clinical Practice I

Units: 2
When Offered: Fall
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.
Grade Type: Letter Grade
Prerequisite(s): Radiologic Science Major

RAD 355 - Clinical Practice II

Units: 2
When Offered: Spring
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.
Grade Type: Letter Grade
Prerequisite(s): RAD 350

RAD 410 - Image Analysis

Units: 3
When Offered: Fall
This course provides a basis for analyzing radiographic images. Included are the importance of optimal imaging standards, discussion of a problem-solving technique for image evaluation and the factors that can affect image quality. Actual images will be included for analysis.
Grade Type: Letter Grade
Prerequisite(s): RAD 355

RAD 415 - Introduction to Computed Tomography

Units: 2
When Offered: Spring
This course is designed to provide entry-level radiography students with an introduction to and basic understanding of the operation of a computed tomography (CT) device. Content is not intended to result in clinical competency.

Grade Type: Letter Grade
Prerequisite(s): RAD 355

RAD 420 - Radiographic Medicine with Lab

Units: 4
When Offered: Spring
This course provides basic concepts of pharmacology, venipuncture and administration of diagnostic contrast agents and intravenous medications. The appropriate delivery of patient care during these procedures is emphasized.
Grade Type: Letter Grade
Prerequisite(s): RAD 410 and 450

RAD 440 - Radiologic Biology and Physics

Units: 3
When Offered: Spring
This course provides an overview of the principles of the interaction of radiation with living systems. Radiation effects on molecules, cells, tissues and the body as a whole are presented. Factors affecting biological response are presented, including acute and chronic effects of radiation. In addition, this course establishes a basic knowledge of atomic structure and terminology. Also presented are the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter.
Grade Type: Letter Grade
Prerequisite(s): Radiologic Science major

RAD 450 - Clinical Practice III

Units: 3
When Offered: Summer
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.
Grade Type: Letter Grade
Prerequisite(s): RAD 355

RAD 455 - Clinical Practice IV

Units: 4
When Offered: Fall
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.
Grade Type: Letter Grade
Prerequisite(s): RAD 450

RAD 460 - Clinical Practice V

Units: 4
When Offered: Spring
Content and clinical practice experiences are designed to sequentially develop, apply, critically analyze, integrate, synthesize, and evaluate concepts and theories in the performance of radiologic procedures. Through structured, sequential, competency-based clinical assignments, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined, and evaluated.

Grade Type: Letter Grade
Prerequisite(s): RAD 455

RAD 494 - Radiologic Fluoroscopy

Units: 3
When Offered: Summer
This course provides an introduction to the fluoroscopic imaging system and methods of reducing public and occupational doses of radiation. The course prepares students for the California Fluoroscopy Permit Exam.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

RAD 495 - Radiologic Sciences Capstone

Units: 1
When Offered: Spring
In this course, students will reflect on their classroom, lab, and clinical experiences, culminating in a portfolio of their academic experience. In addition, students will begin preparing to take licensure and certification examinations that will qualify them to practice as professional radiographers.
Grade Type: Letter Grade
Prerequisite(s): RAD 450

RAD 496 - Comprehensive Review

Units: 3
When Offered: Spring
This course is designed to prepare students for the American Registry of Radiologic Technologists (ARRT) exam in Radiography. This course will provide a comprehensive review that will prepare students to successfully pass their ARRT board exam. This course will include a mock board review exam.
Grade Type: Letter Grade
Prerequisite(s): Radiologic Science major

REM 301 - Real Estate Principles

Units: 3
When Offered: Fall
This introductory course will review real estate terminology, real estate law, real estate finance, mortgages, taxes, escrow, acquisition and transfer of real property, liens and encumbrances, leases, contracts, unlawful discrimination, agency, business principles, and ethics.
Grade Type: Letter Grade

REM 306 - Real Estate Development

Units: 3
When Offered: As offered
This course is designed to provide an overview of the real estate development process with an emphasis on analysis, risk management, and decision-making relative to changing economic, environmental, institutional, regulatory, and social contexts. Topics discussed include but are not limited to market analysis, feasibility analysis, site acquisition, due diligence, zoning, entitlements, approvals, site planning, building design, construction, financing, leasing, and ongoing management and disposition.
Grade Type: Letter Grade

REM 336 - Real Estate Practice

Units: 3
When Offered: Spring
Subjects discussed in this course are the major topics of Law, Agency Issues, Contracts and Closings, Financing, Taxation, Leasing and other practical topics geared toward the successful practice of real estate. This course focuses on what it takes to succeed in the real estate business. Field work required.
Grade Type: Letter Grade
Prerequisite(s): REM 301

REM 406 - Real Estate Law

Units: 3
When Offered: Fall (even years)
An examination of the fundamentals of real estate from a legal perspective. Topics include: contracts, real property rights and ownership, agency law, landlord and tenant rights, liens, encumbrances, land use, title, and real estate licensure laws.
Grade Type: Letter Grade
Prerequisite(s): REM 301

REM 436 - Real Estate Finance

Units: 3
When Offered: Spring (odd years)
An intermediate finance course reviewing the role of finance in the real estate marketplace. Course topics include: residential and commercial mortgages, interest rates, appraisal, underwriting, income property and investment analysis, risk, valuation, taxation, the secondary mortgage market, and REITS.
Grade Type: Letter Grade
Prerequisite(s): REM 301

RUS 115 - Russian I

Units: 3
When Offered: As offered
The course concentrates on developing basic skills in listening, reading, speaking, and writing. Emphasis is placed on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Russian at the beginning level. This course includes discussion of Russian culture and daily life. It is presumed that the student's vocabulary will grow as the new rules of grammar are studied during this course.
Grade Type: Letter Grade

RUS 125 - Russian II

Units: 3
When Offered: As offered
The course concentrates on continuation of developing basic skills in all four areas of language studies: listening, reading, speaking, and writing. Emphasis is placed on conversation, acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Russian at the beginning intermediate level. Continued discussion of Russian culture and daily life. It is presumed the student's vocabulary will grow as the new rules of grammar are studied during the course. Since the ability to read and the phonology of language are already acquired in the beginning course, the class will create an advanced ability to comprehend and communicate in Russian.
Grade Type: Letter Grade
Prerequisite(s): RUS 115

SCI 120 - Marine Science with Lab

Units: 4
When Offered: Fall, Spring

A consideration of the sea as a biological environment, of the biota, and of the interrelationships existing between marine organisms and the physical, chemical, and biological aspects of their environments. The course provides a field and laboratory course emphasizing identification and life histories of marine organisms. Does not meet the science/lab requirement for Liberal Studies waiver.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional catalina lab fee

SCI 200 - Special Topics

Units: 3
When Offered: As offered
Concentration upon a specific topic in the field of Science. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

SCI 200L - Special Topics Lab

Units: 1
When Offered: As offered
This laboratory course will be offered in conjunction with the special topics course to provide instruction with hands on experience. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Fee: Additional lab fee

SCI 205 - Introduction to Forensic Science with Lab

Units: 4
When Offered: Spring
In this course students will integrate and apply concepts from a variety of disciplines such as chemistry, physics, biology, mathematics, etc., to the study of forensic science. The theoretical foundations of common forensic science techniques will be covered along with applications to specific forensic scenarios.
Grade Type: Letter Grade
Lecture: 3 units **Lab:** 1 unit
Fee: Additional lab fee

SCI 303 - Science and Faith

Units: 3
When Offered: As offered
A study of the various different models of integrating science and religion. A study of the history and recent developments, philosophies, and concepts in both science and theology. Focus is placed in particular on Christian worldviews.
Grade Type: Letter Grade
Prerequisite(s): Previous coursework in Science and Christian Studies

SCI 303L - Science and Faith Lab

Units: 1
When Offered: As offered
A laboratory experience designed to enhance the specific scientific discoveries discussed in lecture.
Grade Type: Letter Grade
Fee: Additional lab fee
Pre- or Co- Requisite(s): SCI 303

SCI 311 - Genetic Engineering and Society

Units: 4
When Offered: As offered
This is an interdisciplinary course involving studies from a variety of disciplines including but not limited to: science, philosophy, religion, law, and behavioral science. We will study the science behind the human genome and stay abreast of the continuing developments within the Human Genome Project. In addition, we will study the scientific, ethical, legal and social implication of the Human Genome Project and genetic engineering in general. Previous coursework in some of the following disciplines is recommended: science, religion, philosophy, ethics, and behavioral science.
Grade Type: Letter Grade
Lecture: 3 units lecture and 1 unit of seminar
Prerequisite(s): Sophomore status

SCI 323 - History and Philosophy of Science

Units: 3
When Offered: As offered
A study of the developments, philosophy, and concepts of science and the contributions of great scientists. Focus is based on issues related to the Bible and religious worldviews. Emphasis is placed on the mathematical and physical sciences.
Grade Type: Letter Grade

SCI 401 - Science and Technology: Its Impact Upon Society

Units: 3
When Offered: As offered
Discusses the interaction between science and its products on our changing society. Emphasis is on the scientific method; modern topics in the physical sciences such as nuclear power, government involvement, restoration/management, genetic engineering, ethics, and future challenges.
Grade Type: Letter Grade

SCI 412 - Topics Marine Science

Units: 1-4
When Offered: As offered
This class deals with research projects and topics of current or historical interest which are not normally covered in other established courses. Content variable from year to year.
Grade Type: Letter Grade
Fee: Additional catalina lab fee
Prerequisite(s): BIO 148

SSC 394 - Social Science in the Classroom

Units: 3
When Offered: As offered
The course introduces classroom pedagogical issues specific to teaching social science at the secondary level as an orientation to a teaching career. Emphasis will be given to fieldwork, teaching methods, administrative expectations, and professional exposure in the content area.
Grade Type: Letter Grade

SWK 300 - Introduction to Social Work

Units: 3
When Offered: Fall, Spring
An introduction to the knowledge, values, ethics, skills, systems, and settings of generalist social work practice. A

historic overview of political, economical, and cultural factors that influence the profession. This course is a prerequisite for all other courses in Social Work.
Grade Type: Letter Grade

SWK 315 - Congregational Social Work

Units: 3
When Offered: Fall
This course explores the critical role of the Christian church in the history and development of the social work profession, social work values and ethics, and techniques employed in social work practice. Students will see church congregations as vital contexts for social work practice.
Grade Type: Letter Grade
Prerequisite(s): BEH 250, SWK 300, and Social Work major

SWK 335 - Substance Use Disorders, Treatment, and Recovery

Units: 3
When Offered: Spring
This course is a survey of substance use disorders, treatment, and recovery models, including a historical and contemporary understanding of addiction, and its impact on individuals, families, and society.
Grade Type: Letter Grade
Prerequisite(s): SWK 300

SWK 340 - Mental Health First Aid

Units: 3
When Offered: Fall
Mental Health First Aid is a national program, operated by the National Council for Behavioral Health in partnership with the Missouri Department of Behavioral Health. The Mental Health First Aid course is generally taught as an 8-hour course that gives people the skills to help someone who is developing a mental health problem or experiencing a mental health crisis. This class is designed to provide social work students with a more in-depth look into mental health issues, treatment, and public responses, while assisting all students in becoming certified "First Responders" upon completion of the course. The evidence behind the program demonstrates that it does build mental health literacy, helping the public identify, understand, and respond to signs of mental illness.
Grade Type: Letter Grade

SWK 345 - Trauma in Children

Units: 3
When Offered: Spring
This course will introduce students to the definition of trauma, the prevalence of children experiencing trauma locally, nationally and globally, as well as the physical, emotional, cognitive, social and spiritual impact trauma can have on children and adolescents. The concepts of trauma informed practice, resilience, and evidence based practices with children experiencing trauma are key components of the course. The role of social workers in working with children experiencing trauma locally, nationally and globally is also a key feature of the course. Although trauma is broadly defined, the course will focus mainly on abuse and neglect, violence, natural disasters, war, and medical trauma.
Grade Type: Letter Grade

SWK 361 - Global Social Work Policy

Units: 3
When Offered: Spring
This course will expose students to a variety of global social issues related to social welfare and social development. Engaging in critical thinking and analysis of global social welfare issues, students will explore how political, economic and cultural, faith-based, historical, and environmental factors impact social welfare policies and the global delivery of

human services.
Grade Type: Letter Grade
Prerequisite(s): SWK 300 and Social Work major

SWK 371 - Spirituality and the Helping Professionals

Units: 3
When Offered: Fall
This course is an introduction to the role of spirituality, religion, and secularism in micro, mezzo, and macro social work practice. Students will examine their own personal values, morals, spirituality, religious, and secular traditions and reconcile any differences between these personal values and professional, ethical practice with diverse clients.
Grade Type: Letter Grade
Prerequisite(s): SWK 300 and Social Work major

SWK 380 - Introduction to Medical Social Work

Units: 3
When Offered: Fall
Students learn about the critical role of social workers in health care settings using bio-psycho-social-spiritual assessments and interventions to assist health practitioners, patients, and their families in addressing medical concerns, social determinants of health, and the social-cultural meanings ascribed to illness.
Grade Type: Letter Grade
Prerequisite(s): BEH 250, SWK 300, and Social Work major

SWK 381 - Introduction to Child and Family Welfare

Units: 3
When Offered: Fall
This course examines the social welfare policies, programs, and services to families and children, historically known as "child welfare services". It explores major issues facing children, youth and families, critically examining the assumptions, values, and philosophical perspectives underlying the social policies that shape child welfare.
Grade Type: Letter Grade
Prerequisite(s): SWK 300 and Social Work major

SWK 399 - Independent Study

Units: 1-3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

SWK 400 - Special Topics in Social Work

Units: 3
When Offered: As offered
This course is designed to be an in-depth seminar on a selected topic within the field of social work.
Repeatable: May be repeated for a maximum of nine (9) units with change in topic
Grade Type: Letter Grade
Prerequisite(s): SWK 300

SWK 401 - Social Work Practice I

Units: 3
When Offered: Fall

This course provides foundational knowledge and skills of generalist social work practice, while exploring social work history, theory, ethics, problem solving, and diversity in social work practice with individual client systems.
Grade Type: Letter Grade
Prerequisite(s): SWK 300, Social Work major, and Senior status

SWK 405 - Social Work Practice II

Units: 3
When Offered: Spring
This course provides the foundational knowledge and skills in generalist Social Work practice utilizing problem-solving models for work with Macro (organization and community) systems and considers implications for vulnerable and marginalized populations.
Grade Type: Letter Grade
Prerequisite(s): SWK 300, Social Work major, and Senior status

SWK 410 - Human Behavior and the Social Environment I

Units: 3
When Offered: Fall
This foundation course explores the theories, themes, and issues concerning the interaction among individuals as they grow, change, and develop over the lifespan and the impact of their social context on their development.
Grade Type: Letter Grade
Prerequisite(s): Social Work major and Senior status

SWK 415 - Human Behavior and the Social Environment II

Units: 3
When Offered: Spring
This foundation course presents and critiques theories of human behavior as they relate to mezzo and macro systems, such as family, groups, organizations, and communities. Students will apply knowledge of person-in-environment and other multidisciplinary theoretical frameworks to macro client systems to address social injustice.
Grade Type: Letter Grade
Prerequisite(s): SWK 410 and Social Work major

SWK 420 - Social Work Policy

Units: 3
When Offered: Spring
This foundation course examines the history and philosophy of social work and social welfare policy in the United States as it relates to poverty, oppression, and marginalized groups. The course focuses on policy analysis and addresses the role of policy in effective service delivery for vulnerable/marginalized populations.
Grade Type: Letter Grade
Fee: Additional course fee
Prerequisite(s): Social Work major and Senior status

SWK 421 - Field Practicum I

Units: 3
When Offered: Fall
This course allows students to practice social work in agency settings under qualified educational supervision, serving vulnerable and oppressed populations while learning generalist skills.
Grade Type: Letter Grade
Fee: Additional course fee

Prerequisite(s): Social Work major and Senior status
Pre- or Co- Requisite(s): SWK 401

SWK 435 - Case Management

Units: 3
When Offered: Fall
This foundation course provides an overview of the history of case management and provides an in-depth analysis of case management from a strengths perspective. Client engagement, assessment, intervention, advocacy, evaluation, and termination are addressed in depth on micro through macro levels.
Grade Type: Letter Grade
Prerequisite(s): Social Work major and Senior status

SWK 451 - Field Practicum II

Units: 3
When Offered: Spring
This course allows students to continue to practice social work in agency settings under qualified educational supervision, serving vulnerable and oppressed populations while learning generalist skills.
Grade Type: Letter Grade
Prerequisite(s): SWK 421, Social Work major, and Senior status
Pre- or Co- Requisite(s): SWK 405

SWK 462 - Marginalized Populations

Units: 3
When Offered: Spring
This course addresses what it means to be marginalized and presents information on the history and current status of various vulnerable populations domestically and globally. The course explores the importance of cultural competence in engaging, assessing, and intervening with client systems.
Grade Type: Letter Grade
Prerequisite(s): Social Work major and Senior status

SOC 200 - Special Topics in Sociology

Units: 3
When Offered: As offered
An in-depth seminar on a selected topic within the Behavioral Sciences.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 213 - Introduction to Sociology

Units: 3
When Offered: Fall, Spring, & OPS
A general introduction to the scientific study of human behavior in social settings. It includes major theories of human behavior in terms of culture, socialization, primary groups, stratification and social class, population, family, religion, and social change.
Grade Type: Letter Grade

SOC 301 - Self and Society

Units: 3
When Offered: OPS

Self and society seeks to answer the process questions concerning the ways and the reasons social forces affect social outcomes, often by affecting the thinking and action of individuals in society. Although the specific topics investigated by microsociologists range widely the focus on external social influences on individual attitudes and social interaction remains the constant perspective, which unifies the field. The will apply that perspective to a range of topics generally concerned with how we influence others and are, in turn, influenced by them.
Grade Type: Letter Grade

SOC 323 - Marriage and the Family

Units: 3
When Offered: Fall, Spring, & OPS
This course addresses the social institutions of marriage and family using a theoretical and research-based approach to examine the social, behavioral, and psychological aspects as they are practiced in American culture. The course discusses dating, mate selection, the experience of marriage, marital challenges, and diversity in family forms. The course defines and evaluates marriage and the family from sociological, psychological, and biblical perspectives.
Grade Type: Letter Grade

SOC 335 - Social Problems

Units: 3
When Offered: Spring & OPS
A study of the nature and meaning of social problems and deviant behavior in American Society. The incidence and characteristics of selected social problems of major public interest will be explored.
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 337 - Deviant Behavior

Units: 3
When Offered: Fall & OPS
This course primarily examines the definition and social construction of deviant behavior. Major sociological perspectives and theories will be applied. Specific topics of exploration include various forms of interpersonal violence, suicide, mental disorder, sexuality, substance use and abuse, and internet deviance.
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 338 - Group Dynamics and Social Movements

Units: 3
When Offered: Spring & OPS
The course addresses the sociological and social psychology dimensions of group behavior, the influences on the socialization of the individual, social interaction and impacts on patterned roles and authority structures. Theories will be applied in group experiences, observations, writing, and problem solving.
Grade Type: Letter Grade
Prerequisite(s): SOC 213

SOC 345 - Race and Ethnicity

Units: 3
When Offered: Spring & OPS
This course will focus on the sociological approach to the ascribed statuses of race, class, and gender in American Society. Also explores how these social concepts are perceived, reinforced, and altered through social institutions, social interaction, media influence, and the dynamics of social change.
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 347 - Sociology of Gender

Units: 3
When Offered: Spring & OPS
An examination of the way in which macro institutions and micro institutions structure gender relations in society, and how gender in turn structures and stratifies the social order. From the perspective of personal identity, we will ask how it is that we experience ourselves as male and female. The social consequences of gender stratification are considered including such substantive topic areas as the sexual division of labor, sexual politics, and sexual violence.
Grade Type: Letter Grade

SOC 348 - Sociology of Aging

Units: 3
When Offered: Spring
This course will critically look at aging as a social process in addition to its biological and psychological components. Additionally, it will identify the aging population in our present society, the various social experiences associated with aging as well as the socioeconomic issues related to aging.
Grade Type: Letter Grade

SOC 349 - Sociology of Religion

Units: 3
When Offered: As offered
This course examines and applies social science theories and perspectives to understanding the human and social construction of religion, including the examination of how religious groups are organized, their cultural settings, political and economic correlates, and capabilities as agents of social change. In addition, the course explores the intersection between the secular social construct of religion, the cultural-Christian expression of religion, and the biblical model of kinship relations and community.
Grade Type: Letter Grade

SOC 352 - Sociology of Health and Illness

Units: 3
When Offered: OPS
This course applies sociological principles to medicine, health, illness, and healthcare. Topics include but are not limited to: medical and sociological models of illness, epidemiology, epidemics, an (abbreviated) history of medicine in the West, public health, the social stratification of illness, medicalization and de-medicalization of illness, disability, individuals' experience of illness, the medical profession, healthcare systems in developing countries, healthcare provision, access and delivery, complementary and alternative healthcare, and, the contemporary U.S. health movement.
Grade Type: Letter Grade

SOC 355 - Social Stratification

Units: 3
When Offered: Fall
This course explores the development, patterns, structures, and consequences of social inequality, with emphasis on social progress, how American institutions are affected, and how social interactions react to institutionalized inequality. Dynamics of resistance and social change are also discussed.
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 381 - Social Theory

Units: 3
When Offered: Fall & OPS
This course introduces classical and contemporary sociological theories to examine the fundamental forces that influence human interactions in daily living. Specific emphasis is given to the relationships between social institutions, social and economic power, socially constructed reality, and cultural effects on individual identity, expression, and opportunities in society. Recognition of the differences between the secular patterns of norms and behaviors are paralleled with faith integration on constructs of beliefs and behaviors.
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 400 - Special Topics in Sociology

Units: 3
When Offered: As offered
An in-depth seminar on a selected topic within the Behavioral Sciences.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade
Prerequisite(s): BEH 100 or SOC 213

SOC 440 - Internship in Sociology

Units: 3
When Offered: Fall, Spring
This course is practical application of basic sociological principles in community or campus responsibilities under professional supervision.
Grade Type: Pass/Fail
Prerequisite(s): SOC 213 and permission of the Dean

SPA 110 - Spanish for Health Care Professionals I

Units: 3
When Offered: Fall, Spring
This course is designed to introduce the non-native Spanish speaking student to basic vocabulary, phrases, and cultural considerations necessary to communicate effectively with Spanish speakers in a healthcare setting. The course will prepare students to perform daily activities and tasks such as collecting and assessing a medical history, assessing health risks, and making appointments with Spanish speaking patients. There is no language prerequisite for the course, but students may find prior language learning experience useful. Students wishing to acquire general conversational skills or fluency in Spanish should enroll in traditional Spanish language classes.
Grade Type: Letter Grade

SPA 115 - Elementary Spanish I

Units: 3
When Offered: Fall, Spring, & OPS
A study of the fundamentals of the Spanish language. Emphasis is on the ability to write, read, speak, and understand simple Spanish through a variety of activities, both in and out of the classroom, homework assignments, and language

lab participation. Must pass with a C- or better to continue in SPA 125.
Grade Type: Letter Grade

SPA 120 - Spanish for Health Care Professionals II

Units: 3
When Offered: Fall, Spring
This course is designed for students who have learned basic Spanish phrases and vocabulary relevant to healthcare professions. The course will afford students the opportunity to perform daily activities and tasks such as collecting and assessing a medical history, assessing health risks, making appointments, etc. with Spanish speaking patients in a public health setting. This course involves regular field experience in public healthcare setting.
Grade Type: Letter Grade
Prerequisite(s): SPA 110 or 115

SPA 125 - Elementary Spanish II

Units: 3
When Offered: Fall, Spring, & OPS
Completion of the fundamentals of the Spanish language with emphasis upon correct pronunciation and mastery of a practical vocabulary. Practice on oral and written expression through a variety of activities, both in and out of the classroom, homework assignments, and language lab participation. Simple study of Hispanic civilization.
Grade Type: Letter Grade
Prerequisite(s): SPA 110 or 115

SPA 130 - Spanish for Heritage Speakers I

Units: 3
When Offered: Fall, Spring
This course will build upon and further develop the informal knowledge of Spanish that heritage learners bring to the classroom and cultivate formal speaking, reading, and writing abilities. Students are not expected to have any formal training in written Spanish prior to enrolling in this course.
*Cannot receive credit for both SPA 125 and SPA 130.
Grade Type: Letter Grade

SPA 213 - Intermediate Spanish I

Units: 3
When Offered: Fall, Spring
A review of Spanish grammar with special emphasis upon idiomatic language and verb forms. Conversation, translation, composition, and collateral reading of modern Spanish prose.
Grade Type: Letter Grade
Prerequisite(s): SPA 120, 125, 130, or equivalent

SPA 223 - Intermediate Spanish II

Units: 3
When Offered: Fall, Spring
Continued grammar review and reading, translation, and interpretation of modern Spanish poetry and prose. Classroom activities are supplemented with a variety of homework assignments and language lab participation.
*Cannot receive credit for both SPA 223 and SPA 230.
Grade Type: Letter Grade
Prerequisite(s): SPA 120, 125, 130, or equivalent

SPA 230 - Spanish for Heritage Speakers II

Units: 3
When Offered: Fall, Spring
This course is designed specifically for heritage speakers of Spanish with oral proficiency, but little formal training in the language. It will emphasize activities which will acquaint students with Spanish in its written form and which will expand students' overall knowledge of the language. This course will review the principles of Spanish grammar, emphasizing their application to composition.
*Cannot receive credit for both SPA 223 and SPA 230.
Grade Type: Letter Grade
Prerequisite(s): SPA 115, 125, 130, or assessment

SPA 233 - Intermediate Conversational Spanish

Units: 3
When Offered: Spring
This course takes a functional, integrated skills approach for intermediate students of Spanish. The course is a two-skills communicative based program (oral or aural).The course develops language proficiency and an awareness and appreciation of Latin American culture. The course will provide comprehensible input in a low anxiety environment in order to enhance second language acquisition. The course is designed to put into practice the thematic vocabulary that has been presented during the elementary and intermediate courses.
Grade Type: Letter Grade
Prerequisite(s): SPA 120, 125, 130, or equivalent

SPA 305 - Conversational Spanish for the Professions

Units: 3
When Offered: Spring (even years)
This course takes a functional, integrated skills approach for intermediate students of Spanish. The course will provide comprehensive input in a low anxiety environment in order to enhance second language acquisition. The course is designed to build Spanish conversational skills within diverse professional settings.
Grade Type: Letter Grade
Prerequisite(s): SPA 120, 125, or 130

SPA 315 - Introduction to Hispanic Literature

Units: 3
When Offered: Spring
This course explores different genres of Spanish and Hispanic literatures, focusing on critical reading and ways of writing about literature. Throughout this course, students will gain a basic understanding of current literary theory and literary strategies, while examining literary movements in the Spanish-speaking world and their socio-historical contexts.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 233, or 305

SPA 324 - Iberian Civilization and Culture

Units: 3
When Offered: Spring (even years)
A study of the civilization and culture of Spain from the formation of Iberian civilization to the present. This study covers history, geography, art, architecture, literature and other aspects of civilization and culture. This course is conducted in Spanish and provides the background for studies in Iberian Literature.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 325 - Spanish Grammar in Context and Composition

Units: 3
When Offered: Fall
This course reviews elementary and intermediate level structures of Spanish and introduces advanced grammatical constructions. Emphasis is placed on developing correct writing skills in the Spanish language.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 330 - Hispanic Literature and Film

Units: 3
When Offered: Fall (even years)
This course examines a selection of feature literary masterpieces and films from Spain, Mexico, Argentina, and Peru using film theory, cultural theory, and feminist approaches. This course evaluates the importance and correlation between literary and film studies with the present. The objective of this course is to rethink the relationship between visual cultural production and concepts of gender and social change.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 335 - Spanish in the Professions

Units: 3
When Offered: Spring (odd years)
Study of the application of linguistic skills in a professional setting.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, 233, or 305

SPA 337 - Advanced Spanish for Healthcare Professions

Units: 3
When Offered: Fall (odd years)
This course is for students in medical fields who will often come into contact with Spanish speaking persons in medical situations both in their professions and during preparation for these professions. This course is designed to prepare students for such situations focusing on the correct use of medical terminology in Spanish. Students will be able to interview patients and record their medical histories accurately and completely, as well as explain correctly, and in a culturally appropriate way to this type of patient the medical tests and procedures needed. Emphasis will be placed on terms most commonly used in communication between a health care provider and a patient.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 339 - Modern Mexican Literature and Film

Units: 3
When Offered: Fall (odd years)
This course provides an introduction to the study of Mexican literature and film of the twentieth and twenty-first century. In this course, students will learn to analyze and interpret masterpieces in a variety of genres. Students will develop literacy and analytical skills in reading, interpreting, and writing Spanish. This course also provides an introduction to the study and application of film theory and literary criticism.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 345 - Survey of Iberian Literature I

Units: 3
When Offered: Spring (odd years)
Covers multiple genres of literature produced in Spain from ancient times to the 16th century.

Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 365 - Survey of Iberian Literature II

Units: 3
When Offered: Fall (odd years)
This course studies major works in Iberian literature written from the Golden Age to present times. Many literary movements come to life throughout the study of these works. This course brings forth the conflict between tradition and reform that characterized Spanish literature throughout the last centuries.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 399 - Independent Study

Units: 1-3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

SPA 400 - Special Topics

Units: 1-3
When Offered: As offered
Focuses on a different topic each time offered.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

SPA 411 - Spanish-English Comparative Structures

Units: 3
When Offered: As offered
An introductory linguistic description of the Spanish language with a special focus on its main differences with English. By means of comparing the two languages, students will discover the main problematic contrasts for an English-speaking student of Spanish. Topics to be covered include: morphology, syllabification, stress placement, grammar, word meaning, language usage and syntax.
Grade Type: Letter Grade
Prerequisite(s): SPA 223 or 230

SPA 414 - Latin American Literature I

Units: 3
When Offered: Spring (even years)
Explores Latin American literature from early periods to the 19th century. Emphasis will be placed on different genres arising from both indigenous traditions, ethnographical narratives of the conquest, and major works written during the colonial and emancipation periods.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 424 - Latin American Literature II

Units: 3
When Offered: Fall (even years)
This course studies major works in Latin American literature written from the nineteenth century to present times.

Emphasis is placed on literary movements and genres that came to life during these centuries, among them: Modernism, Postmodernism, Revolutionary Narratives, Indigenous Novels, and Vanguard Poetry.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 450 - Research in Literature

Units: 3
When Offered: Fall (odd years)
This course reviews and organizes the linguistic, literary, and cultural knowledge acquired by students throughout their course of studies in the Spanish program. Students will demonstrate this knowledge and their advanced proficiency levels in oral and written Spanish by developing and presenting research papers, essays, literary analysis and critical theories.
Grade Type: Letter Grade
Prerequisite(s): SPA 315 and 325

SPA 465 - Spanish-English Translation and Interpretation

Units: 3
When Offered: Spring (odd years)
This course will serve as an introduction to translation theory and practice between Spanish and English. Emphasis is placed on practical simultaneous interpretation. The course will also provide an introduction to Spanish linguistics and will give a general overview of phonology, morphology, and comparative English/Spanish syntax.
Grade Type: Letter Grade
Prerequisite(s): SPA 223, 230, or 233

SPA 470 - Spanish for Education

Units: 3
When Offered: As offered
This course serves as an introduction to Second Language Acquisition theory for students who plan to teach language in K-12. The course covers contemporary theory of the process of learning a second language, as well as pedagogical approaches to teaching language to non-native speakers in K-12.
Grade Type: Letter Grade
Prerequisite(s): SPA 325

SPA 499 - Capstone

Units: 3
When Offered: Spring
This course reviews and organizes the linguistic, literary, and cultural knowledge acquired by senior students throughout their course of studies in the Spanish program. Students will demonstrate this knowledge and their advanced proficiency levels in oral and written Spanish by developing and presenting a capstone portfolio.
Grade Type: Letter Grade
Prerequisite(s): Senior status

SPP 410 - Psychology of Performance Recovery

Units: 3
When Offered: OPS
This focus of this course is on addressing the practice of psychological issues and cognitive variables that may hinder one's performance recovery. The complex psychological nature of recovery, both physical and cognitive, whether from injury or psychological distress, will be discussed. This course will allow the student to explore performance recovery from multiple areas and approaches, as well as concentrating on theoretical foundations of behaviors, psychological intervention of performance problems, prevention, recovery, and strategies/mental health issues related to performance.

Grade Type: Letter Grade
Prerequisite(s): PSY 213

SPP 420 - Social Implications of Sport and Performance

Units: 3
When Offered: OPS
This course explores the establishment of relationships among psychology, social relationships, and performance within various social environments and contexts. Key topics such as social support, diversity, impact of media, coaching relationships, and the wider social contexts of individual performance will be examined and discussed. The course will utilize both theoretical and research findings to suggest practical applications for assisting with human performance.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

SPP 430 - Ethics and Leadership in Performance Psychology

Units: 3
When Offered: OPS
This course is centered around the leadership and ethics needed to build and develop professional relationships within a sport and performance psychology setting. The course examines ethical principles, professional guidelines, organizational standards and ethical codes, and leadership practices designed to help students develop ethical decision-making and behavior skills necessary to meet the appropriate standards of care in providing psychological services to enhance human performance.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

SPP 499 - Sport and Performance Psychology Capstone

Units: 3
When Offered: OPS
This course provides sport and performance psychology students the opportunity to integrate and demonstrate learning from their major, evaluate their own strengths/weaknesses and demonstrate an understanding of the integration of a Christian worldview and their major field of study. Students will evaluate their personal goals, calling and purpose as well as develop skills to move toward successful and fruitful participation in multiple levels of community, including graduate school and careers.
Grade Type: Letter Grade
Prerequisite(s): Permission by the Program Director

SRF 201 - Introduction to Sport, Recreation and Fitness Management

Units: 3
When Offered: OPS
The purpose of this course is to present historical, philosophical, and social aspects in leisure service management. This course encompasses a variety of services, including recreational sport management, outdoor and adventure recreation, and health and fitness. Students will explore a variety of career options and concentrated interests to prepare for challenging careers in the growing field of sport, recreation and fitness.
Grade Type: Letter Grade

SRF 250 - Financial Principles for Sport, Recreation and Fitness Management

Units: 3
When Offered: OPS
This course examines the financial tools that are essential to sport, recreation and fitness managers. Principles of financial management, financial business structure, and planning and forecasting processes that make organizations

effective in sport, recreation, and fitness organizations will be explored. The practical application of financial principles for both business and personal life are incorporated.
Grade Type: Letter Grade

SRF 310 - Legal Aspects of Sport, Recreation and Fitness

Units: 3
When Offered: OPS
This course provides an understanding of the American legal system and its response to sport, recreation and fitness related disputes. Material includes legal terminology, liability, risk management, personnel issues, Title IX, and various issues facing today's teachers, coaches, athletic administrators, and fitness professionals.
Grade Type: Letter Grade

SRF 320 - Ethical Considerations in Sport, Recreation and Fitness

Units: 3
When Offered: OPS
This course focuses on value systems and their role in ethical leadership. Ethical issues in sport, recreation and fitness disciplines are examined, with the application of fundamental principles in guiding ethical discussion, assessment and evaluation. This course will include an examination of relevant ethical considerations and the development of leadership in the domains of sport, recreation and fitness.
Grade Type: Letter Grade

SRF 410 - Special Populations in Sport, Recreation and Fitness

Units: 3
When Offered: OPS
This course incorporates various dimensions of wellness (physical, social, emotional, intellectual, spiritual, and vocational) as they pertain to special populations. Students will examine practical solutions to address physical inactivity and specific approaches that promote active lifestyles among youth, older adults, and persons with disabilities. Safe and effective health and fitness recommendations will be explored.
Grade Type: Letter Grade

SRF 420 - Facility Planning and Design Management

Units: 3
When Offered: OPS
This course introduces students to practical applications used in project analysis through design synthesis that sport, recreation and fitness professionals should be aware of during facility planning and design. Aspects of construction, managing equipment, safety and control, supervision, space utilization, project accounting and scheduling, and maintenance will be explored.
Grade Type: Letter Grade

SRF 430 - Event Programming in Sport, Recreation and Fitness

Units: 3
When Offered: OPS
This course will explore the competencies necessary for managing and operating sport, recreation and fitness events such as tournaments, 5K run events, banquets, fundraisers, stadium events, etc. Students will explore strategies and tactics to guide professionals through the event planning and implementation process, starting with the earliest stages of event design. Conceptualization, staffing, budgeting, financing, promoting, securing, managing, and post-event follow-up will be incorporated.
Grade Type: Letter Grade

SRF 490 - Organization and Administration of Sport, Recreation and Fitness Management

Units: 3
When Offered: OPS
This course provides students with an understanding of management functions in organizations that deliver sport, recreation and fitness programs. Students will learn key elements in organizational development and planning, issues related to interagency collaboration, contracts, and successful marketing. In addition, financial management, human resources, facility maintenance, employee development, communication, and evaluation will be explored.
Grade Type: Letter Grade

STA 101 - Statistical Foundations

Units: 1
When Offered: Fall
A course emphasizing the empirical and scientific approaches to disciplines involved in statistical and data analytics sciences. Students learn the historical foundation of each departmental program area. Students will also familiarize themselves with the perspectives and specialties of our department faculty while systematically and critically reviewing the expanding roles of data-centric sciences. The course focuses on teaching, writing, developing a future internship, exploring potential graduate work, and engaging in professional associations from a Christian worldview. Note: This course is designed to introduce students in statistics-related majors (Applied Statistical Analysis, Statistics and Data Analytics, Actuarial Science, Sports Analytics, etc.) to the discipline. It is not designed as a major or general education course in statistics and does not fulfill the 'introduction to statistics' requirement for any major.
Grade Type: Pass/Fail

STA 144 - Introduction to Statistics

Units: 3
When Offered: Fall, Spring, & OPS
Mathematical theory and applications, development of formulae, principles of statistical decision theory, descriptive measurements, probability concepts, random variables, normal distribution, inferential statistics, sampling distributions, confidence intervals, hypothesis testing, chi-squared procedures, linear regression, and the use of computers in statistics.
Grade Type: Letter Grade
Prerequisite(s): MAT 115 or sufficient SAT, ACT or math placement exam scores and appropriate high school mathematics background

STA 205 - Applied Linear Regression

Units: 3
When Offered: Spring (even years)
This course represents a basic concepts and methodology course in regression analysis using application of general linear regression models to real-life situations. Case studies are used to give practice in diagnosing practical problems, deciding on appropriate models, and knowing which inferential technique will answer the researcher's questions for the purposes of description and prediction. Regression models and model building typical of problems used in the social and behavioral sciences, the natural and health sciences, and many other disciplines are covered.
Grade Type: Letter Grade
Prerequisite(s): STA 144

STA 210 - Statistical Computing I

Units: 3
When Offered: Fall
An introduction to data mining, management and statistical programming techniques using comprehensive and widely available tools like SAGE, SPSS, SAS and R. Students learn exploratory data analysis, coding and manipulation of variables, database management applying statistical concepts. Modeling and simulation experiments on a variety of applied data sets.
Grade Type: Letter Grade
Pre- or Co- Requisite(s): STA 144

STA 211 - Statistical Computing II

Units: 3
When Offered: Spring
A continuation of Statistical Computing I using comprehensive and widely available tools like SAGE, SPSS, SAS and R. Advanced techniques will be covered including (but not limited to) numerical linear algebra, optimization and nonlinear equations, the EM algorithm, Laplace approximations, quadrature methods, simulation methodology, sampling, Monte Carlo and bootstrap methods.
Grade Type: Letter Grade
Prerequisite(s): STA 210

STA 303 - Research and Experimental Design

Units: 3
When Offered: Fall (odd years)
This course studies experimental designs with corresponding models and analyses critical for students in the empirical sciences. Course topics include estimation, test of hypothesis, analysis of variance and a variety of topics in experimental design. Decisions and practical considerations which minimize experimental error and avoid confounding results are dealt with in real life contexts.
Grade Type: Letter Grade
Prerequisite(s): STA 144

STA 305 - Sampling and Survey Methodology

Units: 3
When Offered: Fall (even years)
Sampling theory and practice are presented in this course through a study of simple random samples, stratified random samples, cluster sampling, estimating sample size, ratio estimates, subsampling, two-state sampling and analysis of sampling error. This is a critical course for students in education and the social, medical, biological and management sciences where sampling is a fundamental step in virtually every statistical procedure and critical to meaningful survey research.
Grade Type: Letter Grade
Prerequisite(s): STA 144

STA 310 - Mathematical Statistics I

Units: 3
When Offered: Fall (even years)
The first semester of a two-semester course providing a systematic development of the theories of probability and statistics. Students learn and use fundamental concepts of probability models, random variables and their distributions, reduction of data, estimation, testing of hypotheses, univariate normal inference, and statistical decision theory. The first semester is required for BA and BS statistics majors of all concentrations.
Grade Type: Letter Grade
Prerequisite(s): MAT 245 and STA 144

STA 311 - Mathematical Statistics II

Units: 3
When Offered: Spring (odd years)
Second semester course in a systematic development of the theories of probability and statistics. Topics include analysis of categorical data, multivariate distributions, nonparametric inference, linear models and analysis of variance. As time permits, the theory underlying Markov chain, Monte Carlo, quasi-likelihood, empirical likelihood, statistical functionals, generalized estimating equations, the jackknife, and the bootstrap are addressed.
Grade Type: Letter Grade
Prerequisite(s): STA 310

STA 320 - Financial Mathematics I

Units: 3
When Offered: Fall (even years)
An introduction to the fundamental concepts of financial mathematics including basic interest theory. These concepts will be applied in calculating present and accumulated values for various streams of cash flows as a basis for future use in: reserving, valuation, pricing, asset/liability management, investment income, capital budgeting, and valuing contingent cash flow.
Grade Type: Letter Grade
Prerequisite(s): MAT 245

STA 321 - Financial Mathematics II

Units: 3
When Offered: Spring (odd years)
A continuation of the fundamental concepts of financial mathematics including the basics of financial economics and an introduction to financial instruments, including derivatives, and the concept of no-arbitrage as it relates to financial mathematics.
Grade Type: Letter Grade
Prerequisite(s): STA 320

STA 360 - Data Visualization

Units: 3
When Offered: Spring (even years)
This course provides the tools to create and critically evaluate data visualizations. Focus will be on statistical graphics, graphics that display statistical data. Additionally, recent advances in the field of information visualization will be covered.
Grade Type: Letter Grade
Prerequisite(s): STA 144

STA 362 - Advanced Statistical Computing

Units: 3
When Offered: Fall (even years)
A course to introduce statistical models of advanced least squares regression and standard ANOVA techniques and extensions to categorical data. Students will conceptually understand linear mixed effects models, log linear and generalized linear models for count data; and survival models for the analysis of lifetime data. In addition, students will apply these models to real data, to discern patterns and conclusions, and present their results.
Grade Type: Letter Grade
Prerequisite(s): STA 205 and 210

STA 364 - Applied Statistical Methodology

Units: 3
When Offered: Spring (odd years)
A course in application of parametric and nonparametric single and multivariable data analytic techniques to sports. Topics will include: linear regression, correlation, confounding and interactions, variable selection, categorical predictors and outcomes, logistic regression, factor analysis, discriminant analysis, and regression techniques with longitudinal data.
Grade Type: Letter Grade
Prerequisite(s): STA 210

STA 399 - Independent Study

Units: 1-3
When Offered: As offered
This course of study is offered to afford the superior student an opportunity to explore independently subject matter not already offered in the catalog.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

STA 400 - Special Topics

Units: 1-3
When Offered: As offered
A seminar course offered upon sufficient demand covering appropriate of different concentrations each time. Student involvement in selection of topics is strongly encouraged.
Repeatable: May be repeated for a maximum of six (6) units with change in topic
Grade Type: Letter Grade

STA 460 - Sports Analytics Seminar

Units: 1
When Offered: Spring (odd years)
This course enables students to examine theory and applications of data science and analytics to the field of sports performance, administration, and player rehabilitation. Students will evaluate evidence based literature related to statistical analysis to determine whether a published study has reliable results which can be used in translating evidence to practice. Topics may include aspects of sports strategy, team and player performance, teach and franchise management, officiating and refereeing, coaching and training issues, fan support and marketing, fantasy competitions, and contemporary topics of metrics and technology use (limitations and extensions).
Grade Type: Letter Grade

STA 462 - Measurement and Evaluation

Units: 3
When Offered: Fall (odd years)
This course is designed to develop an understanding of measurement and evaluation concepts. Measurement and evaluation topics relevant to construction and use of assessment in the psychomotor, cognitive and affective domains will be covered. Class activities include collection, analysis of data, and evaluation of instruments for personal and program evaluation.
Grade Type: Letter Grade

STA 470 - Seminar in Financial Mathematics

Units: 2
When Offered: Spring (odd years)
An overview of topics from financial mathematics including interest theory and financial economics.
Repeatable: May be repeated one (1) time for a maximum of four (4) units
Grade Type: Letter Grade
Pre- or Co- Requisite(s): STA 321

STA 480 - Seminar in Probability and Statistics

Units: 3
When Offered: Spring
An overview of topics from probability and statistics including general probability, univariate distributions, and multivariate distributions, as well as, calculus and basic concepts of insurance and risk management.
Repeatable: May be repeated one (1) time for credit

Grade Type: Letter Grade
Prerequisite(s): MAT 343 and 353

STA 490 - Research in Statistics

Units: 1-4
When Offered: As offered
The focus of this class is an independent research project that the student undertakes under the direction of a faculty member who acts as a research advisor. Content varies from year to year and is determined by both the instructor's and student's interests.
Repeatable: May be repeated for credit
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

STA 491 - Sports Analytics Internship

Units: 1-3
When Offered: Fall, Spring, Summer
This course is aimed at developing "hands on" experience in data and visualization analytic skills in the context of involvement with a sport team, league, or corporation. Students will assist in the development of the analytical and data collection capabilities of the organization.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade

STA 499 - Capstone

Units: 1-3
When Offered: Spring
The course is designed to be a culminating experience for senior students. The course gives students through writing, seminar and conference participation, an opportunity to demonstrate their skill and proficiency in the field of statistics. In some cases, this may be coupled with internships.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

THE 111 - Fundamentals of Stagecraft

Units: 3
When Offered: Fall, Spring
This course offers an introduction to the basic construction methods, materials and techniques employed in the scene shop. Students will also develop skills in producing large-scale scenic painting and texturing effects through multiple in-class projects.
Grade Type: Letter Grade

THE 113 - Makeup for Stage and Screen

Units: 2
When Offered: Fall
This course provides a foundation for the student actor and designer in the materials, tools, and application techniques of stage and film makeup. Students will develop skills in brush and sponge application techniques, the design of old age and character specific facial alterations, historical makeup effects and three-dimensional appliances. Students will develop an appreciation of relative viewing distance in the level of subtlety of makeup effects for theatre versus film. Each student will assemble a makeup kit that will be used to prepare projects in class and for productions.
Grade Type: Letter Grade
Fee: Additional lab fee

THE 123 - Voice and Diction for the Stage

Units: 3
When Offered: Spring
This course will focus on the importance of a free and expressive voice in the actor's work. It will develop the voice through a focus on awareness of inner space, alignment, breath, resonance, articulation, expressivity; awareness of General American Dialect, and a beginning look at Phonetics and the IPA (International Phonetic Alphabet), vocal anatomy and voice care.
Grade Type: Letter Grade

THE 133 - Acting for Non-Majors

Units: 3
When Offered: Spring
This course is designed to help the amateur actor develop a beginning understanding and appreciation of the art and skill of acting through the study of acting principles, dramatic scenes, and basic stage techniques. Students will learn to use the tools of the actor (mind, body and voice) through exercise, improvisation, scene and character study and learn the basics of the rehearsal process. The student will also develop into a more informed observer of theatre.
Grade Type: Letter Grade

THE 142 - Introduction to Theatre

Units: 3
When Offered: Fall
This course provides a background, framework and vocabulary for the appreciation of six (6) major areas of production (director, actor, designer/technician, playwright, script, and audience) and the various historical, textual, and performative elements that inform theatrical practice. Students will read a variety of plays, attend productions by the Theatre Arts Program, and participate in a course module involving production creation.
Grade Type: Letter Grade

THE 163 - Production Practicum: Performance

Units: 1-3
When Offered: Fall
Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to participate in a fully realized production, from auditions through to performance. This course consists of regular rehearsals and performances. Students should enroll in the section assigned to their show.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 164 - Production Practicum: Technical

Units: 1-3
When Offered: Fall
Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 183 - Acting I: Fundamentals of Acting

Units: 3
When Offered: Fall
This course is designed to acquaint the student with the fundamental skills necessary to acting and to explore the basic elements of the actor's art. This course will explore the physical, vocal, intellectual, and technical aspects of acting in a

format that encourages freedom of imagination and personal growth. Additionally, the course will explore the connections between faith and theatre and the ways in which God's truth is embedded within the fabric of both the plays themselves and the actor's work.
Grade Type: Letter Grade
Prerequisite(s): Theatre major or minor

THE 200 - Special Topics in Theatre

Units: 1-3
When Offered: As offered
Concentration upon a specific topic in the field of Theatre. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

THE 211 - Introduction to Stage Design and Management

Units: 3
When Offered: Spring
This course will serve as an introduction to the collaborative nature of design and stage management in theatrical productions. Each of the four major areas of design; scenic, costume, lighting, and audio will be explored through projects and the critical viewing of plays on film and live productions. Basic techniques of stage management and production protocols will be explored through exercises and the creation of a prompt script.
Grade Type: Letter Grade

THE 221 - Techniques in Pre-Visualization of Design

Units: 3
When Offered: Fall (odd years)
This course focuses on methods and techniques for pre-visualizing design concepts within the play production process with a focus on using digital modeling software. Traditional techniques in model building, rendering, costume plates and concept sketching will also be explored. Techniques of pitching a design through pre-visualization will be examined through mock design projects and production scenarios.
Grade Type: Letter Grade

THE 223 - Movement for the Stage

Units: 3
When Offered: Fall (odd years)
This course focuses on the mechanics of the actor's body, explores how the body becomes an element of communication in theatre, and works toward freeing up the actor's body to communicate. Students will be introduced to a variety of movement techniques and theories.
Grade Type: Letter Grade

THE 230 - Acting for the Camera

Units: 3
When Offered: Spring (even years)
Students will learn strategies for building truthful performances in a multi-camera studio environment. Participants will refine acting techniques through monologues, sensory exercises, and beginning scene study work. Open to all students.
Grade Type: Letter Grade

THE 232 - Play Structure and Analysis

Units: 3
When Offered: Spring

This course is designed to introduce the student to the skills of dramatic analysis, theatrical research, writing, and critical thinking which are vital to the work of all artists in the theatre. Using the techniques of the Production Dramaturg, the course teaches close reading of play texts and demonstrates ways in which play analysis contributes to the realization of theatrical productions.
Grade Type: Letter Grade

THE 233 - Introduction to Musical Theatre Dance

Units: 3
When Offered: Fall (even years)
This course introduces students to the basics of musical theatre dance. Students will study a variety of theories, techniques, and major choreographers of the stage. Students will build competencies with short dance combinations and entire choreographed pieces that reflect the diversity of styles used in musical theatre.
Grade Type: Letter Grade

THE 263 - Production Practicum: Performance

Units: 1-3
When Offered: Spring
Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to participate in a fully realized production, from auditions to performance. This course consists of regular rehearsals and performances.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 264 - Production Practicum: Technical

Units: 1-3
When Offered: Spring
Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 283 - Acting II: Scene Study

Units: 3
When Offered: Fall (even years)
A continuation of Acting I: Fundamentals of Acting, this course is designed to further explore the actor's art, and continue to develop the individual's technique. This course specifically focuses on the intellectual work of an actor as well as the relationship between actors on stage. Additionally, the course will explore the connections between faith and theatre and the ways in which God's truth is embedded within the fabric of both the plays themselves and the actor's work.
Grade Type: Letter Grade

THE 312 - Drama in the Classroom

Units: 3
When Offered: Fall, Spring
The student will learn how to use drama and theatre activities both for and with children, and how they can incorporate drama into education by creating lesson plans and planning specific assignments. The student will also develop skills in oral interpretation and storytelling to become a more interesting and expressive teacher.
Grade Type: Letter Grade

THE 313 - Advanced Makeup

Units: 3
When Offered: Spring (even years)
Advanced study and application of 3-Dimensional makeup techniques with a focus on foam latex prosthetics. Students will develop skills in life casting, mold making, sculpting, casting and running foam latex. Students will learn advanced painting and makeup application techniques required for blending prosthetics with human skin. Students will also explore techniques for using gelatin makeup for large wound and facial trauma effects.
Grade Type: Letter Grade
Fee: Additional lab fee

THE 330 - Advanced Acting for the Camera

Units: 3
When Offered: Spring (even years)
Advanced scene work in a multi-camera environment. Students learn to scale performances to the shot, dig deeper into character development, clarify subtext, and to emotionally connect to challenging material. All performances are recorded for critique by the instructor and for student self-assessment, through daily journaling.
Grade Type: Letter Grade
Prerequisite(s): COM 113, THE 133, 183, or 230

THE 332 - Theatre History I

Units: 3
When Offered: Fall (even years)
The first part of a two-part review of the development of theatre, with a detailed study of the origins of drama in religious ritual and the beginnings of formalized theatre in Classical Greece through the French Neoclassical Period. Nine plays will be studied in detail during the course, and students will be asked to specifically engage with the material from the Christian worldview to explore how God's truth may be represented within the work.
Grade Type: Letter Grade

THE 333 - Advanced Musical Theatre Dance

Units: 3
When Offered: Fall (even years)
This course continues the training begun in Introduction to Musical Theatre Dance, by exploring advanced theories and styles of dance developed by major choreographers throughout the history of musical theatre.
Grade Type: Letter Grade
Prerequisite(s): THE 233

THE 340 - Drama in the Church

Units: 3
When Offered: As Offered
Designed for pastors, teachers, youth leaders, and church workers, this class explores various ways that drama can be utilized in the church. Class work includes hands-on experience in using church drama with children and youth, drama for the worship service, and how to start a drama program at your local church.
Grade Type: Letter Grade

THE 342 - Theatre History II

Units: 3
When Offered: Spring (odd years)
The second part of a two-part review of the development of theatre, with a detailed study of the beginnings of modern theatre including the English Restoration, 18th-century Sentimentalism, the birth of Realism and the revolt against Realism, experimental and political theatre, and current trends today. Ten plays will be studied in detail during the course, and students will be asked to specifically engage with the material from the Christian worldview to explore how

God's truth may be represented within the work.
Grade Type: Letter Grade
Prerequisite(s): THE 332

THE 344 - Celebration Drama Team

Units: 1-3
When Offered: As offered
Practical experience in rehearsal and performance as part of Celebration! Drama Team. Students may represent the University, traveling to schools and churches presenting a variety of dramatic material, and participating in an International Service Project trip. The course is by audition only and requires application to ISP and participation in ISP training.
Repeatable: May be repeated for a maximum of eight (8) units
Grade Type: Letter Grade

THE 345 - Applied Theatre

Units: 3
When Offered: As offered
Practical experience in writing or assembling theatre pieces and rehearsing and performing, as part of the CBU Theatre Team, theatrical presentations off-campus at schools, community centers, local churches, prisons, theatres and other venues.
Repeatable: May be repeated for a maximum of six (6) units
Grade Type: Letter Grade
Prerequisite(s): THE 283

THE 353 - Directing I

Units: 3
When Offered: Spring (even years)
The study of the basic techniques of stage direction including play analysis, director/actor and director/designer communication, and technical problems of movement, composition, picturization, and blocking. Students will practice the craft by presenting in-depth research and script analysis and directing scene work.
Grade Type: Letter Grade
Prerequisite(s): THE 183 and 232

THE 363 - Production Practicum: Performance

Units: 1-3
When Offered: Fall
Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to participate in a fully realized production, from auditions to performance. This course consists of regular rehearsals and performances.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 364 - Production Practicum: Technical

Units: 1-3
When Offered: Fall
Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments. Advanced students will be encouraged to assume leadership positions as crew chiefs, designers, and master electricians.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 383 - Acting III: Acting Shakespeare

Units: 3
When Offered: Fall (odd years)
An introduction to the skills necessary for performing Shakespearean texts. Through reading, analysis and performance work, the student will grow to understand how Shakespearean performance differs from Realism, and be able to implement those differences to deliver Shakespearean text with clarity and understanding.
Grade Type: Letter Grade
Prerequisite(s): THE 183 and 283

THE 399 - Independent Study

Units: 3
When Offered: As offered
An opportunity for students who have demonstrated the ability to do independent work to pursue in depth a topic of particular interest.
Grade Type: Letter Grade

THE 400 - Special Topics in Theatre

Units: 1-3
When Offered: As offered
Concentration upon a specific topic in the field of Theatre. Topic varies for different semesters.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

THE 424 - Scriptwriting

Units: 3
When Offered: As Offered
A workshop in the practice of playwriting and screenwriting. Students are required to complete at least one play (or screenplay) in the course of the semester and to bring work-in-progress for regular discussion and criticism under the guidance of the instructor. Exercises to improve skills in writing creative dialogue, developing characters, and creative conflict and action will be part of the class work.
Grade Type: Letter Grade
Prerequisite(s): THE 232

THE 431 - Advanced Design: Lighting

Units: 3
When Offered: Fall (even years)
This course explores the techniques, equipment, and methods employed in the design of lighting for the stage. Students will learn to calculate electrical loads, choose appropriate instruments, make color choices, and create plots and schedules to communicate design concepts through projects and exercises. Students will be introduced to moving light technology and digital control protocols.
Grade Type: Letter Grade
Prerequisite(s): THE 111 and 211

THE 432 - Advanced Design: Scenery

Units: 3
When Offered: Spring (odd years)
This course focuses on the production of scenic designs for the stage. Students will employ period architectural research, play analysis, and three-dimensional digital modeling software to complete multiple scenic design problems.

Grade Type: Letter Grade
Prerequisite(s): THE 111 and 211

THE 433 - Advanced Design: Sound

Units: 3
When Offered: Fall (odd years)
This course focuses on the recording, editing, and digital playback of sound effects for the stage. Students will explore sound system design and placement, field recording techniques, and digital signal processing through the creation of sound design exercises.
Grade Type: Letter Grade
Prerequisite(s): THE 111 and 211

THE 434 - Advanced Design: Costume

Units: 3
When Offered: Spring (even years)
This course will explore techniques of period fashion research, character analysis and costume construction methods in the creation of costume designs for the stage.
Grade Type: Letter Grade
Prerequisite(s): THE 111 and 211

THE 435 - Moving Light Programming

Units: 3
When Offered: As offered
A practical study of intelligent fixtures, palette based control consoles, and design principles for employing moving lights in theatre, concert, worship, and entertainment events.
Grade Type: Letter Grade

THE 441 - Auditioning

Units: 3
When Offered: Spring (even years)
This laboratory class provides theatre students with a place to practice audition skills and create a repertoire of audition pieces. Students will gain the necessary skills and tools to audition successfully.
Grade Type: Letter Grade
Prerequisite(s): THE 183, 283 and 383

THE 450 - Internship in Theatre

Units: 1-3
When Offered: Fall, Spring
Under faculty supervision, the student will be assigned to a position, utilizing principles of theatre acquired and employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of theatre as a whole.
Grade Type: Letter Grade
Prerequisite(s): Permission of the Department Chair

THE 451 - Internship in Theatre

Units: 1-3
When Offered: Fall, Spring
Under faculty supervision, the student will be assigned to a position, utilizing principles of theatre acquired and

employed throughout their university experience. This internship provides an opportunity for investigating and participating in field experience with a practitioner of the trade, giving depth and breadth to their understanding of theatre as a whole.
Grade Type: Letter Grade
Prerequisite(s): THE 450 and permission of the Department Chair

THE 463 - Production Practicum: Performance

Units: 1-3
When Offered: Spring
Practical training in the areas of acting, directing, and stage management. Students will have the opportunity to participate in a fully realized production, from auditions through to performance. This course consists of regular rehearsals and performances.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 464 - Production Practicum: Technical

Units: 1-3
When Offered: Spring
Practical hands-on training in the areas of scenic construction, stage lighting, and sound production, costume construction and backstage crew assignments. Advanced students will be encouraged to assume leadership positions as crew chiefs, designers, and master electricians.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Letter Grade

THE 483 - Acting IV: Departures from Realism

Units: 3
When Offered: Fall (even years)
An introduction to post-realistic modern theatre and its acting conventions. Students will be introduced to the acting skills necessary to perform non-realistic theatre. Through reading, analysis, and scene work, the student will grow to understand the varying stylistic conventions found in the wide-ranging genres of non-realistic theatre and the philosophical movements which birthed them, and be able to implement those conventions in practice.
Grade Type: Letter Grade
Prerequisite(s): THE 183, 283, and 383

THE 490G - Global Theatre Engagement Practicum

Units: 1
When Offered: Fall
Practical experience in observation and application of dramatic criticism and/or participation in performances of dramatic works on a global stage, at the premiere festival of world theatre, the Edinburgh Fringe Festival in Scotland. Cultural awareness and sensitivity as well as an understanding of dramatic structure and analysis are key components of this experience.
Repeatable: May be repeated for a maximum of three (3) units
Grade Type: Pass/Fail
Fee: Additional trip fee(s)
Prerequisite(s): THE 232

THE 498 - Capstone Portfolio

Units: 1
When Offered: Fall, Spring
Students will review their personal and professional development based upon their baccalaureate experiences at

California Baptist University. Students will evaluate their growth and development through the program and demonstrate evidence of growth through artifacts accumulated over the course of their baccalaureate career. Students will demonstrate critical self-reflection and present a comprehensive portfolio with the potential to be used in professional or graduate school application.
Grade Type: Pass/Fail

WLD 121 - Science Technology, and Worldview

Units: 3
When Offered: Fall, Spring
This course is intended to study and critique the relationship between the natural sciences technology and worldviews. A variety of interpretations will be examined. We will take a historical look at the methods and pedagogues in various areas within the natural sciences. This is an Interdisciplinary course involving studies from a variety of disciplines including but not limited to: science, philosophy, theology, law and the behavioral sciences. Our journey will lead us to study modern day beliefs and theories, in particular, in cosmology and evolution and their relationship with and impact on religion. Recent developments in science and their impact on theology and one's worldview will be emphasized. Diverse viewpoints will be discussed and critiqued.
Grade Type: Letter Grade

WLD 141 - Perspectives on Human Behavior and Social Systems

Units: 3
When Offered: Fall, Spring
This course presents the basic assumptions and dynamics of worldview as a philosophy of science related to human behavior. Philosophical assumptions, epistemological methodologies, and Worldview perspectives in their Pre-modern, Modern, and Post-modern forms are compared and contrasted. The course also addresses models of knowledge integration and critical thinking.
Grade Type: Letter Grade

WLD 161 - American Founding and Experience

Units: 3
When Offered: Fall, Spring
This course will be an interdisciplinary exploration of the Founding the U.S. using materials from history, political science, the arts, and religion. Students will explore how their worldviews help them better understand how to integrate ideas (including American notions of liberty, independence, property, and freedom of religion or conscience) about America, the so-called "American Dream", and its achievements and inconsistencies to discern a comprehensive and coherent vision of the American experience in today's world.
Grade Type: Letter Grade

WLD 181 - Goodness, Truth and Beauty

Units: 3
When Offered: Fall, Spring
This class explores the concept and reality of truth, goodness, and beauty in the world as it relates to culture, the Bible, worldviews, and human flourishing. Students will survey the concepts of truth, goodness, and beauty through history from both special and general revelation and develop a model for accurately understanding and valuing the created world. Students will develop their discernment to live the "good" life and be equipped to promote what is true, pure, lovely, and of good repute for the good of all.
Grade Type: Letter Grade

AVN 390 - Leadership in Aviation

Units: 3
When Offered: Spring

This course studies the many aspect of leadership in aviation. Various theories of leadership will be studied through study at the tactical, operational, and strategic levels. Multiple examples will be studied along with studying timeless principles of leadership. Past as well as current leaders will be studied to assess their success and failures. The student will be challenged to develop their personal aspects of leadership to prepare them to be leaders in aviation.
Grade Type: Letter Grade
Prerequisite(s): AVN 110

COM 210 - Forensic Workshop

Units: 1-3
When Offered: Spring
A participation class in forensics. Students compete in intercollegiate events. Majors may take a maximum of eight (8) units as part of the Communications Program. Communications minors may take a maximum of four (4) units. Students should consult their advisor in the Communication Arts Department to determine how many units per semester are allowed since the program is offered on a continuing basis.
Grade Type: Letter Grade

COM 308 - Interpersonal Communications

Units: 3
When Offered: Spring & OPS
This class examines the dynamics of the two-person communication process. Students will study the development of self-concept, self-disclosure, perception, listening, and feedback as they affect the communication process. Non-verbal communication, attitudes, beliefs, and values will also be explored.
Grade Type: Letter Grade

COM 410 - Forensic Workshop

Units: 1-3
When Offered: Spring
A participation class in forensics. Students compete in intercollegiate events. Majors may take a maximum of eight (8) units as part of the Communications Program. Communications minors may take a maximum of four (4) units. Students should consult their advisor in the Communication Arts Department to determine how many units per semester are allowed since the program is offered on a continuing basis.
Grade Type: Letter Grade
Prerequisite(s): or 210

COM 420 - Strategic Communication and Global Engagement

Units: 3
When Offered: OPS
In this course students will analyze and evaluate the historical, economic, social, cultural, and political forces of globalization in the context of media. A strong focus will be on modern and contemporary world cultures and on current issues in the globalization of media forms and information technologies. Historical contexts and pressures at work within the contested terrain of globalism will be examined. Students will understand the development of global communication and media networks as these have evolved, expanded, and make up globalization. In addition, students will closely examine the role of digital media and global activism.
Grade Type: Letter Grade

COM 430 - Communication Research and Methods

Units: 3
When Offered: OPS
Explores basic methodologies of communication research, including experiments, surveys, focus groups, field observations, content analysis, and rhetorical and critical analyses. These methodologies and the theoretical and ethical

assumptions underpinning them are examined as ways of posing questions and getting answers about human communication. Each student will write papers based on a research project including problem definition, literature review, data gathering and analysis and reporting.
Grade Type: Letter Grade

EGR 372 - Chemical Engineering Thermodynamics

Units: 3
When Offered: Spring
The fundamentals and applications of thermodynamic properties and processes with a focus on multi-component systems including phase equilibria, nonideal solution behavior, and chemical reaction equilibria. Turbines, compressors, power plants, refrigeration cycles.
Grade Type: Letter Grade
Prerequisite(s): EGR 272, MAT 342, CHE 415, and PHY 203

EGR 400 - Special Topics in Engineering

Units: 3
When Offered: As offered
This course offers a concentration upon a specific topic in the field of engineering. The topic varies by semester.
Repeatable: May be repeated for credit with change in topic
Grade Type: Letter Grade

EGR 475 - Process Safety

Units: 2
When Offered: Spring
Fundamentals of chemical process safety including toxicology, industrial hygiene, toxic release and dispersion models, fires and explosions, and designs to prevent fires and explosions.
Grade Type: Letter Grade
Prerequisite(s): EGR 342

ENT 357 - Small Business Management

Units: 3
When Offered: Fall
This is a practice-oriented course covering major facets of small business with special focus on starting, financing, marketing, operating, and leading the people in a small business. Special emphasis is given to entrepreneurship and small business development.
Grade Type: Letter Grade

FLT 224 - Modern Avionics and Navigational Aids

Units: 3
When Offered: Fall
An in-depth study of the modern avionics and navigation aids available to pilots, including NEXTGEN, ADS-B, and Garmin 500, 600, and G1000 units, and Aspen Evolution PFD1000.
Grade Type: Letter Grade

FLT 311 - Commercial Pilot Ground

Units: 3
When Offered: Spring
An in-depth study of aerodynamics, instruments, engines and systems, airports, air traffic control, and airspace, FARs, performance and weight and balance, aeromedical factors, aviation weather, navigation and flight operations. Prepares

students for the FAA Commercial Pilot knowledge test.
Grade Type: Letter Grade
Fee: Additional exam fee
Prerequisite(s): FLT 119 and 214

RAD 210 - Introduction to Radiologic Science Practice

Units: 3
When Offered: Fall
This course is an introduction to the role of the Radiologic Technologist. Students will learn about the profession, including professional roles, ethics, standards, professional development, regulation, accreditation, quality management, and legal issues.
Grade Type: Letter Grade
Prerequisite(s): BIO 146, 153, 153L, 163, 163L, 173, KIN 212, PHY 214, 214L, and STA 144

RAD 220 - Patient Care in Radiologic Sciences

Units: 3
When Offered: Spring
This course introduces the concepts of optimal patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, as well as infection control procedures using standard precautions.
Grade Type: Letter Grade
Prerequisite(s): RAD 210

SPP 410 - Psychology of Sport Injury

Units: 3
When Offered: OPS
This focus of this course is on addressing the practice of Sport Psychology while identifying cognitive variables that may hinder athletic performance. The complex physical and psychological nature of injuries will be discussed, including theoretical foundations of behaviors, psychological intervention of performance problems, and strategies/mental health issues related to athletic injury.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

SPP 420 - Sports in the Social Environment

Units: 3
When Offered: OPS
This course explores the establishment of relationships between psychology, social relationships, and sport. Many concepts of group dynamics, motivation, social support, coaching relationships, and the wider social context's relationship to the individual and athletics will be broken down and discussed. The course will utilize both theoretical and research findings to suggest practical applications for sports performance from a Biblical worldview.
Grade Type: Letter Grade
Prerequisite(s): PSY 213

SPP 430 - Ethics and Leadership in Sport Psychology

Units: 3
When Offered: OPS
This course is centered around the leadership and ethics needed to build and develop professional relationships within a sport psychology setting. The course examines ethical principles, professional guidelines, and leadership practices designed to help students develop ethical decision-making and behavior skills necessary to meet the appropriate standards of care in providing sport psychological services.

Grade Type: Letter Grade
Prerequisite(s): PSY 213

STA 311 - Mathematical Statistics II

Units: 3
When Offered: Spring (odd years)
Second semester course in a systematic development of the theories of probability and statistics. Topics include analysis of categorical data, multivariate distributions, nonparametric inference, linear models and analysis of variance. As time permits, the theory underlying Markov chain, Monte Carlo, quasi-likelihood, empirical likelihood, statistical functionals, generalized estimating equations, the jackknife, and the bootstrap are addressed.
Grade Type: Letter Grade
Prerequisite(s): MAT 303, 343, and STA 310

THE 340 - Drama in the Church

Units: 3
When Offered: Spring (odd years)
Designed for pastors, teachers, youth leaders, and church workers, this class explores various ways that drama can be utilized in the church. Class work includes hands-on experience in using church drama with children and youth, drama for the worship service, and how to start a drama program at your local church.
Grade Type: Letter Grade

THE 424 - Scriptwriting

Units: 3
When Offered: Spring (even years)
A workshop in the practice of playwriting and screenwriting. Students are required to complete at least one play (or screenplay) in the course of the semester and to bring work-in-progress for regular discussion and criticism under the guidance of the instructor. Exercises to improve skills in writing creative dialogue, developing characters, and creative conflict and action will be part of the class work.
Grade Type: Letter Grade
Prerequisite(s): THE 232

UAS 115 - Introduction to Unmanned Aerial Systems

Units: 3
When Offered: Fall
This course will provide students with insight into the Unmanned Aerial Systems (UAS) industry through the introduction of UAS history, systems elements, regulatory system, COA (Certificate of Approval) process, operations, geospatial data, automation and autonomy, safety assessments, detect, sense and avoid, sensors and payloads, human factors, and the future of UAS.
Grade Type: Letter Grade

UAS 215 - Small Unmanned Aerial Systems Flight Lab

Units: 1
When Offered: Spring
Several stages of flight simulation and actual flight will include EP (external pilot) training, FPV (first person view), and programming the autopilot for autonomous flight.
Grade Type: Letter Grade
Fee: Additional lab fee
Prerequisite(s): UAS 115

UAS 325 - Medium Unmanned Aerial Systems Operations I

Units: 3
When Offered: Fall
The course will be a blend of academics and simulator sorties on a specific unmanned aerial system command and control system for medium size UAS and beyond line of site (BLOS) operations. The academics and simulator sorties will include preflight operations, normal command and control, recovery, and emergencies including lost link, lost communications, loss of power, and loss of battery power to mention a few of the aspects. The class will include simulators that allow the student to practice what they have learned in the academics throughout the course culminating in scenario-based training of several operational missions.
Grade Type: Letter Grade
Prerequisite(s): UAS 215

UAS 425 - Large Unmanned Aerial Systems Operations

Units: 3
When Offered: Spring
The course is a blend of academics and simulator sorties on a specific unmanned aerial system command and control system for large size UAS and beyond line of site (BLOS) operations.
Grade Type: Letter Grade

Directory

Board of Trustees: California Baptist University

Regular Meetings of the Board of Trustees

2021-2022

September 24, 2021

January 14, 2022

May 6, 2022

Dr. Anthony Dockery, Chair

Term Expiring 2021

Mr. Brian Chelette	Riverside, CA
Rev. Josh Daffern	Haymarket, VA
Dr. Heather Dean	Riverbank, CA
Mr. David Kennedy	Lexington, KY
Dr. Phoebe Lambeth	Orange, CA
Mr. Michael Poma	Redlands, CA
Dr. Walter Price	Beaumont, CA
Dr. J.T. Reed	Riverside, CA
Mr. Michael Staver	Fountain Hills, AZ

Term Expiring 2022

Dr. Anthony Dockery	La Puente, CA
Mr. Chuck Doremus	Bakersfield, CA
Mrs. Margaret Hollis	Garden Grove, CA
Dr. Stacy Johnson	Hemet, CA
Dr. Robert Mohn	Riverside, CA
Rev. Charlie Moulton	Corona, CA
Dr. Mike Procter	Anchorage, AK
Mr. Gary Vick	Salinas, CA
Dr. John Wells	Murrieta, CA

Term Expiring 2023

Mr. Richard Yu	Alhambra, CA
Mr. Josh De La Rosa	Riverside, CA
Dr. Nathan Granillo	Redlands, CA
Mr. Tom Hixson	Jurupa Valley, CA
Mrs. Hilda Kennedy	Grand Terrace, CA
Mrs. Chrystal Kern	Stafford, VA
Dr. Tom Lance	Riverside, CA
Mrs. Nancy Mellinger	Riverside, CA
Dr. Michael Nolen	Tracy, CA

Term Expiring 2024

Mr. Walt Crabtree	Escondido, CA
Mrs. Dawn Dwyer	Orangevale, CA
Mrs. Marni Jimenez	Riverside, CA
Mr. Pat Pavlian	Highland, CA
Dr. Gus Reyes	Cedar Park, TX
Mrs. Erica Ward	Alameda, CA
Mr. Jim Williams	Clovis, CA
Mrs. Anne Yip	Fullerton, CA

Ex Officio

Dr. Bill Agee	Executive Director California Southern Baptist Convention, Fresno, CA

Executive Council

Ronald L. Ellis; B.A., M.S., Ph.D.	President
Charles D. Sands; B.S., M.A., Ph.D.	Provost and Vice President for Academic Affairs
Kent Dacus; B.S., M.S.	Vice President for Student and Enrollment Services
Mark Howe; B.S., M.B.A.	Vice President for Finance and Administration
Adam Burton; B.A., J.D.	Vice President and General Counsel

Larry Linamen, B.A., M.B.A., Ed.D.	Vice President for Global Initiatives
Paul Eldridge; B.S., M.A., J.D.	Vice President for University Advancement
Pamela Daly; B.S., M.A., Ph.D.	Vice President for Online and Professional Studies

Emeriti

Persons listed as *Emeriti* are retired employees given an honorary title of their last position with California Baptist University by the Board of Trustees.

Russell R. Tuck; B.S., M.S., Ph.D., D.H.	President Emeritus
Donald J. Evans; B.A., M.A., Ed.D.	Senior Vice President Emeritus
Arthur Cleveland; B.S., M.A., Ph.D.	Vice President Emeritus
Bruce A. Hitchcock; B.S., M.S.	Vice-President Emeritus
Bonnie G. Metcalf; B.A., M.A., Ed.D.	Vice President Emeritus
Gary Collins, B.A., B.D., M.A., Ph.D.	Professor - Psychology
Robert K. Jabs; B.A., B.S., M.B.E., Ph.D.	Professor - Business Administration
Raquel Lebredo; B.A., M.A., Ph.D.	Professor - Spanish
Edwin A. Reed; B.A., B.D., M.A., Th.M.	Professor - History
Wayne Swindall; B.A., M.Div., Th.M., Ph.D.	Professor - Philosophy
Mary Crist; A.B., M.Ed., Ed. D.	Professor/Administrator - Education
Dawn Ellen Jacobs; B.A., M.A., Ph.D.	Professor/Administrator - English
Timothy Luther: B.A., M.A., Ph.D.	Professor - Political Science

CBU Pillars

CBU Pillars is a classification created by the Board of Trustees to memorialize contributions of deceased individuals previously designated as *Emeriti*.

Ken Futch; B.A., M.A., Ph.D.	Professor - English
Norene Murphy Hokett; B.A., M.A.	Professor - Communication Arts
LeVern B. Young; B.S., M.S., Ph.D.	Professor - Natural Science

Directory

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

Amanie Abdelmessih
Professor of Mechanical Engineering
B.S., M.S., Alexandria University; Ph.D., Oklahoma State University.

Jordan Adams
Assistant Professor of Kinesiology
B.S. Biola University; D.P.T., Midwestern University.

Jenny Aguilar
Assistant Professor of Psychology
B.S., University of Phoenix; M.A., California Baptist University; Psy.D., The Chicago School of Professional Psychology.

Elaine Ahumada
Professor of Public Administration
B.A., M.P.A., D.P.A., University of La Verne.

Keanon Alderson
Professor of Business
B.S., California Baptist University; M.B.A., University of Redlands; Ph.D. Capella University.

Noemi Alexander
Assistant Professor of Public Administration
B.A., M.P.A., California State University, Long Beach; Ph.D., Claremont Graduate University.

Berniece Bruinius Alspach
Associate Professor of English
B.A., Florida State University; M.A., California Baptist University; Ph.D., Claremont Graduate University.

Akua Amankwaah
Associate Professor of Nutrition and Food Sciences
B.S., University of Ghana; M.S., Bowling Green State University; Ph.D., Purdue University.

Mark Anklam
Professor of Engineering
B.S., Stanford University; M.A., Ph.D., Princeton University.

Melissa Anozie
Assistant Professor of Nursing
B.S., M.S.N., California Baptist University.

Melissa Antonio
Associate Professor of Biology
A.A., A.S., Riverside Community College; B.S., Ph.D., University of California, Riverside.

Richard Ardito
Associate Professor of Accounting
B.S., M.B.A., California Baptist University; D.B.A., Liberty University.

Liza Arellano
Assistant Professor of Social Work
B.A., California Baptist University; M.S.W., California State University, San Bernardino.

B

Jong-Wha Bai
Professor of Civil Engineering
B.S., Yonsei University; M.S., Ph.D., Texas A&M University.

Jeffrey Barnes
Professor of Humanities
B.A., William Carey College; M.Div., Ph.D., Golden Gate Baptist Theological Seminary.

Gretchen C. Bartels
Associate Professor of English
B.A., Wheaton College; M.A., Ph.D., University of California, Riverside.

Walter Beaumont
Associate Professor of Music
B.M., M.M., Texas Christian University; D.M.A., Boston University.

Allan Bedashi
Professor of Physician Assistant Studies
B.S., B.S., George Washington University; M.P.A.S., University of Nebraska; M.S.H.P.E., Western University of Health Sciences; D.H.Sc., Nova Southeastern University.

Kristin Beinschroth
Visiting Professor of Radiologic Sciences
A.A., Victor Valley College; B.S. California State University, Northridge; M.P.H., California Baptist University.

Michael Berger
Professor of Graphic Arts
B.F.A., M.F.A., California State University, Fullerton.

Aine Bergin
Associate Professor of Psychology
B.A., M.S., California Baptist University; Psy.D., Alliant International University.

Russ Bermejo
Lecturer of Social Work
B.S., University of California, Los Angeles; M.S.W., California State University, San Bernardino.

Dennis Bideshi
Professor of Biology
B.A., M.A., California State University, Fullerton; Ph.D., University of California, Riverside.

BC Biermann
Associate Professor of Graphic Arts
B.A., University of Missouri, Columbia; M.A., Maryville University; M.A., Knox Theological Seminary; Ph.D., Universiteit van Amsterdam.

Joel Bigley
Associate Professor of Business
B.S., B.S., John Brown University; M.S., University of Arkansas; Ed.D., Pepperdine University.

Jim Bishop
Associate Professor of Criminal Justice and Business Law
B.S., California State University, San Bernardino; J.D., University of the Pacific.

W. Daniel Blair
Associate Professor of American Sign Language
B.G.S., Samford University; M.Div., Beeson Divinity School; Ph.D., University of Alabama.

Mark Blincoe
Professor of History
B.A., Whitworth University; M.A., University of Pennsylvania; Ph.D., University of Minnesota.

Cynthia Boes
Professor of Communication
B.S., Corban College; M.A.I.S., Oregon State University; Ph.D. Pennsylvania State University.

Joseph Bolin
Associate Professor of Music
B.M., Southern Illinois University; M.M., D.M.A., University of Texas, Austin.

Danette Bonillo
Assistant Professor of Communication Sciences and Disorders
B.A., M.A., California State University, Long Beach; Ed.D., Concordia University, Irvine.

Janet Bonome
Associate Professor of Public Health
B.S., University of California, Riverside; M.P.H., Dr.P.H., Loma Linda University.

Brian Bovee
Assistant Professor of Computer Information Technology
B.A., California State University, San Bernardino; M.A., California State University, Chico.

A. Greg Bowden
Professor of Organizational Leadership
B.A., San Diego State University; M.S. Pepperdine University; Ed.D., University of San Diego.

William Boyer
Assistant Professor of Exercise Science
B.S.H., M.S.H., University of North Florida; Ph.D., University of Tennessee, Knoxville.

Karen Bradley
Professor of Nursing
B.S.N., University of Phoenix; M.S.N., Loma Linda University; D.N.P., University of San Francisco.

Angela Brand
Professor of Music
B.M., Auburn University; M.M., M.Ed., Bowling Green State University; D.M.A., Claremont Graduate University.

Elizabeth Brandt Flater
Associate Librarian
B.S., University of Wisconsin, Eau Claire; M.L.I.S., University of Wisconsin, Milwaukee.

Philip M. Breitenbucher
Assistant Professor of Social Work
B.A., California Baptist University; M.S.W., California State University, San Bernardino.

Victoria Brodie
Assistant Professor of Public Relations
B.S., University of Phoenix; M.A., California Baptist University; Ed.D., Pepperdine University.

Eric Brook
Professor of History and Humanities
B.A., California Baptist University; M.A., Concordia University; M.A., California State University, Dominguez Hills; D.Min., Concordia Theological Seminary; Ph.D., University of Essex.

Tom Brooks
Lecturer of Music
B.M., University of Missouri, St. Louis; M.A., Ph.D., Friends International Christian University.

Stephen Brown
Associate Professor of Behavioral Sciences
B.S., M.S.W., Jackson State University; Ed.D., University of La Verne.

Julianna Browning
Professor of Accounting
B.S., University of Southern California; M.S., Liberty University; M.B.A., California Baptist University; Ph.D., University of California, Riverside.

James R. Buchholz
Professor of Mathematics and Physics
B.A., Indiana State University; M.S., Texas A&M University; Ph.D., University of California, Riverside.

Lisa Bursch
Professor of Nursing
B.S.N., University of Texas, Health & Science Center; M.S.N., California State University, Long Beach; D.N.P., Rush University.

Krysten Burton
Assistant Professor of Architecture
B.A., University of California, Riverside; M.Arch., University of California, Los Angeles.

John Butler
Assistant Professor of Electrical and Computer Engineering
B.S., M.S., Ph.D., University of California, Riverside.

Kelsie Byrd
Assistant Professor of Nursing
B.S.N., California Baptist University; M.S.N., Colorado Technical University.

C

Virginia Cadenhead
Assistant Professor of Nursing
B.S., Texas Christian University; M.A., Southwestern Baptist Theological Seminary; M.S.N., University of Texas, Tyler.

Tracy Calpin Taylor
Assistant Professor of Communication Sciences and Disorders
B.S., M.A. Kent State University.

Grasiela Campbell
Assistant Professor of Nursing
B.S.N.,M.S.N., California Baptist University.

Pedro Caro
Assistant Professor of School Counseling
B.A., M.S., San Diego State University.

Linn Carothers
Professor of Mathematics
B.S., University of Southern California; M.S., California State University, Northridge; Ph.D., University of Southern California.

Deborah Carter
Associate Professor of Nursing
B.S.N., California State University, Dominguez Hills; M.S.N., Walden University; Ed.D., Regent University.

Jeff Cate
Professor of New Testament
B.A., Samford University; M.Div., Ph.D., New Orleans Baptist Theological Seminary.

Sabrina Chang
Assistant Professor of Nursing
B.S., University of California, Riverside; M.S.N., California Baptist University.

Catherine Chang-Letherer
Associate Professor of Physician Assistant Studies
B.A., University of California, San Diego; M.H.S., Quinnipiac University; M.B.A., Western Governors University.

Crystal Chavez
Visiting Professor of Kinesiology
B.S., M.S., California Baptist University.

J. Alex Chediak
Professor of Physics and Engineering
B.S., Alfred University; M.S., Ph.D., University of California, Berkley.

Jeong-Kyun Choi
Professor of Social Work
B.S., M.S.W., Yonsei University; Ph.D., University of California, Los Angeles.

Seunghyun Chun
Professor of Electrical and Computer Engineering
B.S., Yonsei University; M.S. University of Southern California; Ph.D., University of Texas, Austin.

Karlyssa Chung
Assistant Professor of Physician Assistant Studies
B.A., University of California, San Diego; M.P.A.S., Western University of Health Sciences.

Soojin Chung
Assistant Professor of Intercultural Studies
B.A., University of Virginia; M.Div., Gordon-Conwell Theological Seminary; Ph.D., Boston University.

Anthony Chute
Professor of Church History
B.Min., B.A., Brewton-Parker College; M.Div., Beeson Divinity School; Ph.D., Trinity Evangelical Divinity School.

Larry Clement
Assistant Professor of Engineering
B.S., M.S., University of Oklahoma; M.A., Fuller Theological Seminary.

Adamson Co
Professor of Theology
B.A., California State Polytechnic University, Pomona; M.Div., The Master's Seminary; J.D., University of California Hastings Law School; Ph.D., Trinity Evangelical Divinity School.

Angela Coaston
Associate Professor of Nursing
B.S.N., University of Phoenix; M.S.N., Western University of Health Sciences.

Greg Cochran
Professor of Christian Studies
B.A., M.A., Louisiana Tech University; M.Div., Ph.D., Southern Baptist Theological Seminary.

Angela Coes
Assistant Professor of Nursing
B.S.N., University of Nevada, Las Vegas; M.S.N., Walden University.

Debra Coleman
Associate Professor of Nursing
B.S.N., MSN.Ed., University of Phoenix; Ph.D., Azusa Pacific University.

Noel Cooper
Assistant Professor of Psychology
B.A., Eastern Nazarene College; M.A., Psy.D., Fuller Theological Seminary.

Ricardo Cordero-Soto
Professor of Mathematics
B.S., Universidad Metropolitana; M.A., Ph.D., Arizona State University.

Anthony Corso
Associate Professor of Computer Information Systems
B.A., Cogswell Polytechnical College; M.B.A., University of Phoenix; Ph.D., Claremont Graduate University.

Jennifer Costello
Assistant Professor of Social Work
B.S., Ashford University; M.S.W., University of Southern California; D.B.H., Arizona State University.

Mark Cox
Lecturer, Psychology
B.A., California State University, San Bernardino; M.S., California Baptist University.

Robert G. Crosby
Associate Professor of Psychology
B.A., California State Polytechnic University, Pomona; M.S., Capella University; Ph.D., University of California, Riverside.

Melissa Croteau
Professor of Film Studies
B.A., Biola University; M.A., University of Birmingham; Ph.D., Claremont Graduate University.

Jennifer Cruz
Assistant Professor of Music
B.M., Eastman School of Music; M.M., D.M.A., University of Southern California.

D

Steven Dahlgren
Assistant Professor of Music
B.A., M.M., Azusa Pacific University.

Dirk Dallas
Associate Professor of Graphic Arts
B.A., California State University, San Bernardino; M.F.A., Savannah College of Art and Design.

Dirk Davis
Professor of Organizational Leadership
B.A., M.A., California State University, San Bernardino; M.S., North Central University; Ed.D., Pepperdine University.

Kenya Davis-Hayes
Professor of History
B.A., M.Ed., Campbell University; Ph.D., Purdue University.

Mark Deharo
Associate Professor of Radiologic Sciences
B.S., Loma Linda University; M.H.A., University of Phoenix; D.H.Sc., A.T. Still University.

Christina Denis
Instructor of Early Childhood Studies
B.A., University of New Hampshire; M.S., Boston University; Ed.D., Capella University.

Amy Dennis
Assistant Professor of Social Work
A.A., Grossmont College; B.A., California State University, San Marcos; M.S.W., University of Texas, Arlington.

Angela Deulen
Associate Professor of Psychology
B.A., M.S., California Baptist University; Ed.D., Pepperdine University.

Khamla Dhouti Martinez
Assistant Professor of Spanish
B.A., Washington & Lee University; M.A., Middlebury College; Ph.D., University of Texas, Austin.

Jolene Dickert
Professor of Athletic Training
B.A., Whitworth College; M.A., San Diego State University; Ed.D., University of the Pacific.

Anthony Donaldson
Professor of Engineering
B.S.E.E., M.S.E.E., Texas Tech University; M.A., Asbury Theological Seminary; Ph.D., Texas Tech University.

Thomas Donavan
Assistant Professor of Psychology
B.A., Psy.D., Biola University.

Sydney Dreves
Assistant Professor of Kinesiology
B.A., M.S., Point Loma Nazarene University.

Susan Duemer
Associate Professor of Architecture
B.A., M.Arch., Judson University.

Scott Dunbar
Associate Professor of Human Resource Management
B.S., University of California, Riverside; M.B.A., Loma Linda University; D.B.A., Liberty University.

Robin Duncan
Assistant Professor of Education
B.S., Samford University; M.S., University of Alabama; Ed.D., Samford University.

Marion Dunkerley
Associate Professor of Nursing
B.S.N., Biola University; M.A., Azusa Pacific University; M.S.N., University of Phoenix; Ed.D., Regent University.

Amanda Durall
Instructor of Kinesiology
B.S., University of Tennessee; M.P.H., East Tennessee State University.

E

Michael Eaton
Professor of Film Studies
B.A., Whitworth University; M.F.A., Azusa Pacific University.

Jan Edmisten
Professor of Kinesiology
B.S., Middle Tennessee State University; M.P.T., D.Sc., Loma Linda University.

Ronald L. Ellis
Professor of Education
B.A., Houston Baptist University; M.S., Baylor University; Ph.D., Texas A&M University.

Stephen Emerson
Librarian
B.A., Westmont College; M.Div., Fuller Theological Seminary; M.L.I.S., San Jose State University; Ph.D. Vanderbilt University.

Gabriel Estrada
Visiting Professor of Christian Ministries
B.A.T., California Baptist University; M.Div., Beeson Divinity School.

F

Lindsay Fahnestock
Assistant Professor of Public Health
B.S., California Baptist University; M.P.H., Dr.P.H., Loma Linda University.

Shari Farris
Associate Professor of Education
B.A., M.A.T., M.Ed., Whitworth University; Ed.D., University of Washington.

Doreen Ferko
Professor of Education
B.A., University of California, San Diego; M.A., California State University, Northridge; Ph.D., Purdue University.

Thomas Ferko
Professor of Chemistry
B.S., Juniata College; Ph.D., Purdue University.

Wayne Fletcher
Associate Professor of Health Sciences
B.S., Colorado State University; M.B.A., University of Denver; Ed.D., University of California, Los Angeles.

Anabel Flores
Assistant Professor of Biology
B.S., California Baptist University; Ph.D., University of Michigan.

Kendra Flores-Carter
Assistant Professor of Social Work
B.A., California State University, Dominguez Hills; M.S.W., California State University, Long Beach; D.S.W., University of Tennessee, Knoxville.

Jan Flournoy
Assistant Professor of Nursing
B.S.N., University of Maryland; M.S.N., California State University, Dominguez Hills; D.N.P., Western University of Health Sciences.

Rod Foist
Professor of Electrical and Computer Engineering
B.S.E.E., M.S.E.E., University of Washington, Seattle; Ph.D., University of British Columbia.

L. Alan Fossett
Professor of Chemistry
B.S., Northwest Nazarene College; Ph.D., University of California, Davis.

Thomas Frederick
Professor of Psychology
B.S., M.A., Geneva College; M.A., Ph.D., Fuller Theological Seminary.

Laura Freeman
Professor of Psychology
B.S., University of Wisconsin, Madison; M.A., Psy.D., Biola University.

Lisa Friesen
Assistant Professor of Kinesiology
B.A., University of the Pacific; M.S., James Madison University.

Joshua Fuller
Assistant Professor of Industrial and Organizational Psychology
B.S., Central Michigan University; M.A. Pepperdine University; Ph.D., Seoul National University.

G

Jeffrey Gage
Professor of Nursing
M.P.H., University of Otago, Christchurch; Ph.D., University of Missouri.

Ana Gamez
Associate Professor of Psychology
B.A., M.S., California State University, Los Angeles; M.B.A., West Texas A&M University; Ph.D., Loma Linda University.

Lizbeth Gaona
Assistant Professor of Social Work
B.A., University of California, Los Angeles; M.S.W., California State University, Los Angeles; Ph.D., University of Southern California.

Edward Garrett
Associate Professor of Kinesiology
B.A., Point Loma Nazarene University; M.A., Colorado Christian University; M.A., University of Phoenix; Psy.D., University of the Rockies.

Levi Garrett
Assistant Professor of Kinesiology
B.S., M.S., California Baptist University; D.H.Ed., A.T. Still University.

Marcia Gay
Assistant Professor of Nursing
B.S.N., University of New Mexico; M.B.A., University of California, Riverside; M.S.N., California State University, Dominguez Hills.

Kenneth George
Assistant Professor of Finance
B.A., M.B.A., University of La Verne; M.S., Claremont Graduate University; Ph.D., Northcentral University.

John Gill
Associate Professor of Christian Studies
B.A., University of California, San Diego; M.Div., Golden Gate Baptist Theological Seminary; Ph.D., Southern Baptist Theological Seminary.

Trevor Gillum
Professor of Kinesiology
B.S., University of Oklahoma; M.S., University of Montana; Ph.D., University of New Mexico.

Marina Girju
Associate Professor of Marketing
B.S., B.A., Politehnica University and Academy of Economic Studies; M.B.A., Southern Methodist University; Ph.D., University of Texas, Dallas.

Christina Gonet
Visiting Professor of Christian Ministries
B.A., Biola University; M.Div., Golden Gate Seminary.

Christina Gonzalez
Associate Professor of Business
B.S., Pepperdine University; M.B.A., California Baptist University; Ed.D., University of Southern California.

Creighton Goodman
Associate Professor of Aviation Science
B.S., Loyola University; M.A., Trident University; D.P.A., California Baptist University.

Julie Goodman-Bowling
Associate Professor of Anthropology
B.A., Biola University; M.A., California State University, Fullerton; Ph.D., University of Nevada, Reno.

Mark Gordon
Associate Professor of Mechanical Engineering
B.S.E., Calvin College; M.S.E., Ph.D., University of Michigan.

Nolan Gouveia
Lecturer of Business
B.S., M.B.A., California Baptist University.

Tim Gramling
Assistant Professor of Business
B.A., Harvard University; M.S., University of North Carolina, Chapel Hill; L.P.D., Northeastern University.

Ted Grant
Visiting Professor of Physics
B.S., B.S., University of California, Riverside; M.S., Ph.D., University of California, Irvine.

Aaron Greene
Assistant Professor of Architecture
B.Des., University of Florida; M.Arch., Massachusetts Institute of Technology.

Anna Grigorian-Routon
Assistant Professor of Psychology
B.A., University of California, Riverside; M.A., California Baptist University; Psy.D., Pepperdine University.

Dan Grissom
Associate Professor of Christian Ministries
B.S., University of Cincinnati; M.S., Ph.D., University of California Riverside.

Beth A. Groves
Associate Professor of Public Administration
B.A., Central Michigan University; M.P.A., California State University, Long Beach; D.P.A., University of La Verne.

Sandra Jeannette Guignard
Associate Professor of Organizational Leadership
B.S.B.A., M.B.A., California State Polytechnic University, Pomona; Ed.D., Pepperdine University.

Jacqueline Gustafson
Professor of Psychology
B.A., M.A., Northwest University; Ed.D., Seattle University.

H

Teresa Hamilton
Associate Professor of Nursing
A.D.N., Golden West College; B.S.N., M.S.N., California State University, Fullerton; Ph.D., University of Wisconsin-Milwaukee.

Virgo Handojo
Professor of Psychology
B.A., Diponegoro University; M.A., M.A., M.A., Ph.D., Fuller Theological Seminary.

Adele Harrison
Professor of Finance
B.S., San Diego State University; M.B.A., Louisiana Tech University; Ph.D., University of Nebraska, Lincoln.

Virginia Hart-Kepler
Assistant Professor of Nursing
B.S.N., California State University, Los Angeles; M.N., University of California, Los Angeles; Ph.D., University of San Diego.

Andrew Harveson
Associate Professor of Kinesiology
B.A., Whitworth University; M.S., Central Washington University; Ph.D., University of Utah.

Lauri Hauck
Visiting Professor of Kinesiology
B.A., M.S., California Baptist University.

Krystal Hays
Assistant Professor of Social Work
B.A., University of California, Irvine; M.S.W., Ph.D., University of Southern California.

Carolyn Heine
Associate Librarian
B.A., Westmont College; M.L.I.S., University of British Columbia.

Keith Hekman
Professor of Mechanical Engineering
B.S.E., Calvin College; M.S.M.E, Ph.D., Georgia Institute of Technology.

Froylena Heredia-Miller
Associate Professor of Social Work
B.A., University of California, Riverside; M.S.W., University of Southern California.

Lisa Hernandez
Professor of Mathematics
B.A., M.S., Ph.D., University of California, Riverside.

Dayna Herrera
Professor of Nursing
B.S.N., M.S.N., University of Phoenix; D.N.P., Rush University.

Dinah Herrick
Associate Professor of Nursing
B.S.N., Azusa Pacific University; M.S.N, University of Phoenix; Ph.D., Azusa Pacific University.

Andrew C. Herrity
Professor of Business

B.A., University of Southern California; M.B.A., California State Polytechnic University; M.A., Ph.D., University of California, Riverside.

Nathanael Heyman
Professor of Biology
B.S., Lee University; Ph.D., University of Arizona.

John Higley
Professor of Criminal Justice
B.A., University of California, Irvine; M.A., National University; D.P.A, University of La Verne.

Troy Hinrichs
Professor of Criminal Justice
B.A., B.A., Hardin-Simmons University; J.D., Texas Tech University School of Law.

Trever Hoehne
Lecturer of Graphic Arts
B.A., California Baptist University.

Guy Holliday
Assistant Professor of Music
B.A., California State University, Fresno; M.M., Azusa Pacific University; D.M.A., Claremont Graduate University.

Mercy Homer
Assistant Professor of Communication Sciences and Disorders
B.S.Ed., M.S.Ed., State University of New York, Fredonia.

Tran Hong
Assistant Professor of Computer Science
B.S., California State University, Long Beach; M.B.A., University of Phoenix; Ed.D., California State University, Fullerton.

Damon Horton
Assistant Professor of Intercultural Studies
B.S., Calvary Bible College; M.S., Calvary Theological Seminary.

Tad Hove
Assistant Professor of Business Administration
B.S., Devry University; M.B.A., California Baptist University; M.A., Ph.D., Fielding Graduate University.

Ying Hu
Professor of Chemistry
B.A., B.S., Dailan University of Technology; Ph.D., Bowling Green State University.

Morris Hunter
Assistant Professor of Radiologic Sciences
A.A., Antelope Valley College; B.V.E., M.Ed., California State University, San Bernardino.

I

Kyungsoo Im
Associate Professor of Computer Science
B.S., Georgia Institute of Technology; M.S., Kennesaw State University; Ph.D., Clemson University.

David Isaacs
Visiting Professor of English
B.A., California State University, San Bernardino; M.A., Simon Greenleaf University; M.A., Trinity International University.

Nathan Iverson
Associate Professor of Psychology
B.A., Trinity Lutheran College; M.A., Ph.D., Seattle Pacific University.

J

Shanna James
Assistant Professor of Nursing
B.S., West Coast University; M.S.N., Walden University.

Andres Jaramillo
Lecturer of Music
B.M., Corpas University; M.M., Eastern Washington University; D.M.A., University of Southern California.

Thomas Jernejcic
Associate Professor of Computer Information Technology
B.A., California Baptist University; M.S., Ph.D., Dakota State University.

Susan Jetton
Professor of Nursing
B.S.N., Loma Linda University; M.S.N., California State University, Dominguez Hills; D.N.P., Western University of Health Sciences.

Hector Jimenez
Assistant Professor of Music
B.A., California Baptist University; M.M., California State University, Los Angeles.

Deanna Jung
Associate Professor of Nursing
A.D.N., Santa Ana College; B.S.N., California State University; M.S.N., University of California, Los Angeles; D.N.P., Duke University.

Helen Jung
Professor of Civil Engineering
B.S., M.S., Ph.D., University of California, Los Angeles.

K

Keelan Kaiser
Professor of Architecture
B.S., M.Arch., University of Nebraska, Lincoln.

Ellen Kaminski
Assistant Professor of Business
B.A., M.P.A., California Baptist University; D.B.A., Creighton University.

Lisa Kennelly
Assistant Professor of Nursing
B.S.N., M.S.N.Ed., Western Governors University.

Christopher Kern
Assistant Professor of Photography
B.A., California State University, Fullerton; M.F.A., Academy of Art University.

Brittany Ketenbrink
Lecturer of Chemistry
B.S., M.S., California Baptist University.

Jason Kiker
Assistant Professor of Leadership Studies
B.S., United States Air Force Academy; M.B.A., Regis University.

Jong-Kyung Kim
Professor of Exercise Science
B.S., Kyung Hee University; M.A., M.S., Ball State University; Ph.D., Wayne State School of Medicine.

Mark Kim
Assistant Professor of Data Science and Computer Science
B.S., United States Naval Academy; M.S., Claremont Graduate University.

Namhee Kim
Associate Professor of Communication Sciences and Disorders
B.A., M.A., Yonsei University; Ph.D., University of Texas, Austin.

Sangmin Kim
Professor of Health Science
B.A., M.A., Ed.D., University of Northern Iowa.

Seung-Jae Kim
Professor of Mechanical and Bioengineering
B.S., Han-Yang University; M.S., Pohang University of Science and Technology; M.S., Ph.D., University of Utah.

Yeesock Kim
Professor of Construction Management and Civil Engineering
B.S., Catholic Kwandong University; M.S., Yonsei University; Ph.D., Texas A&M University.

Toni Kirk
Professor of English
B.A., California Baptist University; M.A., California State University, San Bernardino; M.A., California Baptist University; M.A., Ph.D., Pacifica Graduate Institute.

Stephan Kish
Lecturer of Mathematics
B.A, University of California, Riverside; M.Div., Golden Gate Baptist Theological Seminary; D.Min., Gateway Seminary.

Mark Kling
Associate Professor of Criminal Justice
B.S., University of Phoenix; M.P.A., D.P.A., University of La Verne.

Adrienne Knabb
Visiting Professor of Psychology
B.S., San Diego State University; M.A., Azusa Pacific University.

Joshua Knabb
Professor of Psychology
B.S., University of Redlands; M.A., Psy.D., Azusa Pacific University.

Benjamin Knisley
Lecturer of Computer Science and Data Science
B.S., M.S., California Baptist University.

Seong Kong
Professor of Biomedical Engineering
B.S., Kyunghee University; M.S., Yonsei University; Ph.D., University of California, San Diego.

Bon-Jun Koo
Professor of Natural Science
B.S., M.S., Konkuk University; Ph.D., University of California, Riverside.

L

Robert LaChausse
Professor of Public Health
B.A., M.S., California State University, San Bernardino; Ph.D., Claremont Graduate University.

Douglas Lainson
Associate Professor of Business Administration
B.A., Loma Linda University; M.B.A., Biola University; Ph.D, Claremont Graduate University.

Jacob Lanphere
Associate Professor of Environmental Science
B.S., Ph.D., University of California, Riverside.

Anne-Marie Larsen
Professor of Psychology
B.A., University of California, Los Angeles; M.A., Ph.D., California School of Professional Psychology.

Catherine Leach
Assistant Professor of Social Work
B.A., M.A., California State University Dominguez Hills; Ed.D., University of La Verne.

Esther Lee
Associate Professor of Statistics
B.A., Ajou University; M.A., Yonsei University; Ph.D., University of California, Irvine.

Jay Lee
Professor of Construction Management
B.E., M.S.E., Inha University; Ph.D., Purdue University.

Jong Cheon Lee
Associate Professor of Psychology
B.E., Hanyang University; M.Div., M.A., Ph.D., Southwestern Baptist Theological Seminary.

Charles Lee-Johnson
Associate Professor of Social Work
B.A., Morehouse College; M.S.W., University of California, Los Angeles; D.Min., United Theological Seminary.

Matthew Leonard
Assistant Professor of Philosophy
B.A., B.A.T., California Baptist University; M.A., California State University, Los Angeles; M.A., University of California, Davis; Ph.D., University of Southern California.

Nathan Lewis
Professor of Psychology
B.A., California Baptist University; M.A., Ed.D., Southwestern Baptist Theological Seminary.

Jiliang Li
Assistant Professor of Civil Engineering
B.Eng., Ph.D., University of Science and Technology; Ph.D., University of Alabama.

Viola Lindsey
Associate Professor of Social Work
B.A., Stillman College; M.S.W., Ph.D., Loma Linda University.

Kristine Lippire
Associate Professor of Visual Arts
B.F.A., California State University, Long Beach; M.F.A., Claremont Graduate University.

Carla Liu
Associate Professor of English
B.A., Hope College; M.S., Nazareth College of Rochester; Ed.D., Alliant International University.

Jessie Lowell
Associate Professor of Psychology
B.A., Chapman University; Psy.D., Loma Linda University.

James J. Lu
Professor of English
B.A., Shandong University; M.A., Institute of American Literature; M.A., Ph.D., Duke University.

Lee Lyons
Professor of Communication Arts
B.A.A., M.F.A., San Diego State University.

Brittany Lytle
Assistant Professor of Social Work
B.A., University of California Riverside; M.S., Columbia University.

M

Nicole MacDonald
Professor of Athletic Training
B.A., Point Loma Nazarene University; M.P.H., Dr.P.H., Loma Linda University.

Travis Maclay
Assistant Professor of Music
B.S., M.A., Liberty University.

Amanda Madrid
Assistant Professor of Nursing
B.S.N., California Baptist University; M.S.N., Grand Canyon University.

Michael Marse
Assistant Professor of Communication Arts
B.A., California Baptist University; M.A. California State University, San Bernardino.

John Marselus
Professor of Aviation Science
B.S., United States Air Force Academy; M.S., Air University; M.A., M.Div., D.Min., Liberty University.

Nia Martin
Assistant Professor of Nursing
B.S.N., McNeese State University; M.S.N., University of Phoenix.

Margaret Matthews
Assistant Professor of Nursing
B.A., Georgian Court College; B.S.N., M.S.N., California Baptist University.

Kristin Mauldin
Assistant Professor of Psychology
B.A., California State University, Hayward; M.A., Ph.D., Miami University.

Chris McHorney
Professor of Political Science
B.A., University of California, Los Angeles; M.S., Troy State University, Dothan; Ph.D., University of California, Riverside.

Ogbochi McKinney
Associate Professor of Public Health
B.A., M.P.A., M.P.H., California State University, Long Beach; Dr.P.H., Loma Linda University.

Denise McLurkin
Associate Professor of Education
B.A., University of California, Irvine; M.S., California Baptist University; M.A., Ph.D., University of Michigan, Ann Arbor.

Jeff McNair
Professor of Education
B.A., Wheaton College; M.A., California State University, Los Angeles; Ph.D., University of Illinois, Champaign-Urbana.

Antonio Méjico
Assistant Professor of Social Work
B.A., M.A., Ed.D., University of Redlands.

Ash Melika
Professor of Anthropology
B.A., The City University of New York; M.A., Columbia University; M.A., New York University; M.Div., Princeton Theological Seminary; Th.M., Gateway Seminary; Ph.D., University of Leicester.

Rebecca Meyer
Professor of Nursing
B.S.N., M.S.N., Mount St. Mary's College; Ph.D., Azusa Pacific University.

Stacy Meyer
Lecturer of Education
B.A., San Diego State University; M.A., Azusa Pacific University.

Jerri Middleton
Assistant Professor of Social Work
B.A.S., Texas Tech University; M.S.W., University of Alabama.

Frank Mihelich
Associate Professor of Theatre
B.A., B.A., California Baptist University; M.F.A., Columbia University.

Amy Miller
Associate Professor of Kinesiology
B.S., California Baptist University; M.S., California State University, Fullerton; Dr.P.H., Loma Linda University.

Kenneth Minesinger
Professor of Law
B.A., California State University, San Bernardino; J.D., Western State University College of Law.

Carol Minton
Professor of Sociology
B.S., M.Ed., University of Central Oklahoma; M.S., Ph.D., Oklahoma State University.

Richard Mobley
Professor of New Testament
B.A., Hardin-Simmons University; M.Div., Ph.D., Southwestern Baptist Theological Seminary.

Jin-Sil Mock
Associate Professor of Education
B.S., University of Illinois, Urbana-Champaign; Ed.M., Harvard Graduate School of Education; Ph.D., Vanderbilt University.

Gene Moon
Professor of Music
B.M., University of Central Oklahoma; B.M.Ed., Chapman University; M.A., New York University; D.M.A., University of Oklahoma.

Jeff Mooney
Professor of Old Testament
B.A., Auburn University; M.Div., Beeson Divinity School; Ph.D. Southern Baptist Theological Seminary.

Teresa Taylor Moore
Instructor of Communication
B.A., Ph.D., University of Southern Missippi; M.A., University of New Orleans.

Christopher Morgan
Professor of Theology
B.A., Southeast Missouri State University; M.Div., Ph.D., Mid-America Baptist Theological Seminary.

Elizabeth Morris
Professor of Education and Mathematics
B.A., M.S., California Baptist University; Ph.D., Capella University.

Timothy Mosteller
Professor of Philosophy
B.A., University of Southern California; M.A., Biola University; Ph.D., University of Miami.

Deogratius Mshigeni
Assistant Professor of Sociology
B.A., University of Dar es Salaam; M.A., Ph.D., University of Nevada, Las Vegas.

Sophia Mun
Assistant Professor of Behavioral and Social Sciences
B.A., M.A., Korea University; Ph.D., University of Southern California.

Ted Murcray
Associate Professor of Education
B.A., M.S., California Baptist University; Ed.D., Vanderbilt University.

Elisabeth Murillo
Assistant Professor of Aviation Science
B.S., Westminster College; M.C.A., Delta State University; Ed.D., Concordia University.

N

Jenifer Nalbandian
Associate Professor of Chemistry
B.S., Pepperdine University; M.S., Ph.D., University of California, Riverside.

Michael Nalbandian
Associate Professor of Engineering
B.S., Ph.D., University of California, Riverside.

Bob Namvar
Professor of Economics
B.S., M.S., Pahlavi University; M.A., Indiana University; Ph.D., University of California, Riverside.

Jocelyn Navarro
Assistant Professor of Early Childhood Education
B.A., Life Pacific College; M.S., University of La Verne.

Bryan Ness
Professor of Communication Sciences and Disorders
B.S., M.S., University of Nevada; Ph.D., University of Oregon.

Jennifer Newton
Professor of English
B.A., LeTourneau University; M.A., Ph.D., Baylor University.

Liya Grace Ni
Professor of Electrical and Computer Engineering
B.S., Xi'an Jiao Tong University; M.S., National University of Singapore; Ph.D., University of Waterloo.

Michelle Nielsen-Hernandez
Associate Professor of Mathematics
B.A., Bethel University; M.S., Ph.D., University of Minnesota, Minneapolis.

Matthew Niermann
Associate Professor of Architecture
B.S., M.Arch., University of Illinois, Urbana-Champaign; M.A., Biola University; M.A., Th.M., Gordon-Conwell Theological Seminary; M.S., Ph.D., University of Michigan.

Jee Young Noh
Assistant Professor of Education
B.B.A., Yonsei University; M.Ed., Harvard University; Ph.D., University of Maryland, College Park.

Kathryn Norwood
Professor of Education
B.S., California Baptist University; M.A., M.A., Ed.D., Azusa Pacific University.

O

Geneva G. Oaks
Professor of Nursing
B.S.N., M.S.N., Ph.D., Azusa Pacific University.

David Ogoli
Professor of Architecture
B.Arch., University of Nairobi; M.Phil., University of Cambridge; Ph.D., University of Florida.

Pedro Olvera
Associate Professor of School Psychology
B.A., San Diego Christian College; M.A., Azusa Pacific University; Psy.D., Alliant International University.

Heather Ontiveros
Associate Professor of Physician Assistant Studies
B.S., University of California, Davis; M.A., San Diego State University; D.H.Sc., A.T. Still University.

Monica O'Rourke
Professor of Kinesiology
B.S., California State University, San Bernardino; M.S., California Baptist University; Ph.D., Middle Tennessee State University.

Mandy Ortiz
Assistant Professor of Marketing
B.A., Hamilton College; M.B.A., University of Texas, Austin; Ph.D., University of Alabama, Tuscaloosa.

Mario Oyanader
Professor of Chemical Engineering
B.S., Northern Catholic University; M.S., Hawaii Pacific University; Ph.D., Florida State University.

P

Marilyn Panaro
Lecturer of Natural Sciences
B.S., The State University of New York, Buffalo; M.A., Trinity International University.

Katherine Papineau
Associate Professor of Art History
B.A., Wellesley College; M.A., Ph.D., University of California, Santa Barbara.

Hyun-Woo Park
Professor of Biology
B.S., M.S., Seoul National University; Ph.D., University of California, Riverside.

John Park
Assistant Professor of Psychology
B.S., Andrews University; M.Div., Andrews Theological Seminary; Ph.D., Loma Linda University.

Samuel Park
Associate Professor of Graphic Design and Digital Media
B.A., Art Center College of Design; M.F.A., Liberty University.

Barry Parker
Librarian
B.A., McMaster University; M.Div., Northwest Baptist Theological Seminary; M.L.I.S., University of British Columbia; Ph.D., University of Sheffield.

Jonathan K. Parker
Professor of Education
B.A., University of California, Santa Cruz; M.A., San Francisco State University; Ed.D., University of the Pacific.

Ashley Parks
Associate Professor of Public Health
B.A., M.P.H., California State University, Fresno; Dr.P.H., University of California, Los Angeles.

Robert Pate
Professor of Psychology
B.A., Wagner College; M.A., Psy.D., Biola University.

Ken Pearce
Professor of Psychology
B.A., M.Ed., Central State University; Ph.D., Oklahoma State University.

David Pearson
Professor of Kinesiology
B.S., M.S.A., West Chester University; Ph.D., University of California, Riverside.

Mary Ann Pearson
Professor of Communication
B.A., M.S., California Baptist University; Ed.D., La Sierra University.

Michelle Pearson-LoGiudice
Assistant Professor of Nursing
B.S.N., Western Governors University; M.S.N., Grand Canyon University.

Marshare Penny
Professor of Public Health
B.S., M.P.H., San Diego State University; Dr.P.H, Loma Linda University.

Juliann Perdue
Professor of Nursing
B.S.N., University of Texas, El Paso; M.S.N., University of Phoenix; D.N.P., Western University of Health Sciences.

Henry Petersen
Associate Professor of Business Administration
B.S., M.S., Ph.D., University of Calgary.

Gene Peterson
Professor of Music
A.A., El Camino College; B.M., M.A., Chapman University; D.M.A., University of Washington.

Anthony Phillips
Assistant Professor of Nursing
B.S.N., California State University, Dominguez Hills; M.S.N., Western Governor's University.

Glenn Pickett
Professor of Music
B.A., California State University, Northridge; M.M., Azusa Pacific University; D.M.A., Claremont Graduate University.

Rosenda A. Pike
Assistant Professor of Education
B.A., M.A., California Baptist University; Ph.D., University of California, Riverside.

Frederick Pontius
Professor of Civil Engineering
B.S., M.S., Ph.D., University of Colorado, Boulder.

Chase Porter
Assistant Professor of Political Science
B.A., Mississippi College; M.Div., Samford University; Ph.D., University of Alabama.

Stephen Posegate
Professor of Music
B.M.E., Wheaton College; M.Ed., University of Alaska, Anchorage; M.M., Indiana University; D.M.A., University of Oregon.

Daniel Prather
Professor of Aviation Science
B.C.A., Delta State University; M.B.A., University of North Alabama; M.P.A., Southern Illinois University; Ph.D., University of Nebraska, Lincoln.

Bruce Prins
Professor of Biology
B.A., Point Loma College; Ph.D., University of California, Irvine.

Brett Provance
Professor of Humanities
B.S., California State Polytechnic University, Pomona; M.A., Ph.D., Claremont Graduate University.

Cammy Purper
Professor of Education
B.A., University of Redlands; M.A. Pacific Oaks College; Ph.D., Claremont Graduate University.

Susan Purrington
Associate Professor of Psychology
B.A., Concordia University; M.A., Psy.D., Biola University.

Joseph Putulowski
Associate Professor of Marketing
B.A., California State University, Fullerton; M.B.A., California Baptist University; Ph.D., Northcentral University.

R

Jasmine Reed
Assistant Professor of Nursing
B.S., West Coast University; M.S.N., Walden University.

Brenda Reinebach
Lecturer of Music
B.A., M.A., Bob Jones University.

John Reinebach
Professor of Music
B.A., M.A., Bob Jones University; D.M.A., University of Southern California.

Matthew Rickard
Professor of Mechanical Engineering
B.S., M.S., Ph.D., University of California, Irvine.

Mark Roberson
Professor of Architecture
B.S., University of Texas, Arlington; B.Arch., M.Arch., University of Southern California.

Pennee Robertson
Associate Professor of Nursing
B.S.N., M.S.N., California State University, Fullerton; D.N.P., Rush University.

James Rodisch
Instructor of Accounting
B.A., Temple University; M.B.A., University of Phoenix; M.S., Keller Graduate School of Management.

Joshua Rodriguez
Assistant Professor of Music
B.A., Thomas Edison State College; M.M. Cleveland Institute of Music; Ph.D., University of California, Los Angeles.

Mark Rogers
Lecturer of Christian Ministries
B.A., California Baptist University; M.Div., Southern Baptist Theological Seminary; Ph.D., Trinity Evangelical School.

Sandra Romo
Associate Professor of Communication
B.A., M.S., California Baptist University; Ph.D., Regent University.

Michelle Ross
Visiting Professor of Communication Sciences and Disorders
B.A., Washington State University; M.S., Idaho State University.

Erica Roth
Associate Professor of Psychology
B.S., Houghton College; M.S.Ed., St. Bonaventure University; Psy.D., Azusa Pacific University.

Mischa Routon
Associate Professor of Psychology
B.A., M.S., California Baptist University; Ph.D., Fielding Graduate University.

Sherle Rubin
Assistant Professor of Nursing
M.S.N., University of Phoenix.

Megan Ruggles
Assistant Professor of Nursing
B.S.N., M.S.N., Western Governors University.

Stephen Runyan
Associate Professor of Biology
B.S., M.S., Ph.D., University of California, Los Angeles.

Noe Ruvalcaba
Associate Professor of Spanish
B.A., University of California, Santa Barbara; M.A., Ph.D., University of California, Riverside.

S

Benjamin Sanders
Visiting Professor of Computer Science and Data Science
B.S., M.S., University of California, Riverside.

Charles D. Sands
Professor of Health Science
B.S., Samford University; M.A., Ph.D., University of Alabama, Birmingham.

Patrick Schacht
Associate Professor of Biochemistry
B.S., Biola University; Ph.D., University of California, Riverside.

Thomas Schneider
Associate Professor of English
B.A., Calvin College; M.A., Ph.D., University of California, Riverside.

Cindy Sendor
Assistant Professor of Communication Sciences and Disorders
B.A., M.A., California State University, Fullerton.

Elisa Shepard
Associate Professor of Psychology
B.A., Ph.D., Biola University.

Mary Sherman
Lecturer of Physical Therapy
B.S.H.A., M.B.A., University of Phoenix.

Lorraine Shields
Associate Professor of Nursing
B.S.N., M.S.N., University of California, Los Angeles; D.N.P, Vanderbilt University.

Robert Shields
Associate Professor of Computer Information Technology
B.S., University of North Carolina, Charlotte; M.A., Pepperdine University; Ed.D., California State University, Fullerton.

Alexandra Shin
Associate Professor of Biology
B.S., George Fox University; Ph.D., Loma Linda University.

John R. Shoup
Professor of Education
B.A., University of Montana, Missoula; M.A., M.Div., Trinity Evangelical Divinity School; Ph.D., University of California, Riverside.

April Si
Professor of Mechanical Engineering
B.S., M.S., Dalian University of Technology; Ph.D., Texas A&M University.

Michael Sill
Associate Professor of Mathematics
B.S., Loyola Marymount University; Ph.D., University of California, Riverside.

Duncan Simcoe
Professor of Visual Arts
B.A., California Baptist University; M.F.A., California State University, Long Beach.

Riste Simnjanovski
Associate Professor of Public Administration
B.A., M.A., University of Redlands; D.P.A., University of La Verne.

Sonya Singh
Visiting Professor of Journalism & New Media
B.A., Pepperdine University.

Jacob Slagill
Assistant Professor of Architecture
B.A., M.Arch., California Baptist University.

Joseph Slunaker
Assistant Professor of Christian Studies
B.A.T., California Baptist University; M.Div., Golden Gate Baptist Theological Seminary; Ph.D., Gateway Seminary.

Erin Smith
Associate Professor of Psychology
B.A., Point Loma Nazarene University; M.A., Ph.D., University of California, Riverside.

Daniel St. Marseille
Assistant Professor of Music
B.M, Chapman University; M.M., California State University, Fullerton.

Mary Stahovich
Assistant Professor of Physician Assistant Studies
B.S., University of California, San Diego; M.H.P., Northeastern University.

Owen Staley
Lecturer of English
B.A., M.A., University of California, Berkeley, Ph.D., University of California, Los Angeles.

Jan Stanfield
Assistant Professor of Social Work
B.A., Michigan State University; M.S.W., University of Michigan.

Kyle Stewart
Associate Professor of Physics
B.S., University of California, Los Angeles; M.S., Ph.D., University of California, Irvine.

H. Bruce Stokes
Professor of Behavioral Science
B.A., California State University, Dominguez Hills; M.A., Ph.D., University of California, Riverside.

Amy Stumpf
Professor of Religion and Society
B.A., Pacific Union College; M.A., Ph.D., Loma Linda University.

Dominick Sturz
Professor of Public Health
B.S., M.P.H., California State University, Fullerton; Dr.P.H., Loma Linda University.

Sean Sullivan
Professor of Kinesiology
B.S., M.A., San Diego State University; Ph.D., University of New Mexico.

Linda-Marie Sundstrom
Professor of Public Administration
B.S., California Polytechnic University, Pomona; M.P.A., California State University, San Bernardino; D.P.A., University of La Verne.

Tae Sung
Associate Professor of English
B.A., University of California, San Diego; M.A., Fuller Theological Seminary; M.A., Ph.D., University of California, Irvine.

Satoru Suzuki
Professor of Chemistry
B.S., Grand Canyon University; Ph.D., Arizona State University.

Daniel Szeto
Professor of Biology and Biochemistry
B.S., University of California, Davis; M.S., San Diego State University; Ph.D., University of California, San Diego.

T

Yvonne Thai
Associate Professor of Sociology
B.S., M.A., Ph.D., University of California, Riverside.

Terri Thompson
Associate Professor of Nursing
B.S.N., Oral Roberts University; M.S.N., Chamberlain College of Nursing; D.N.P., Western University of Health Sciences.

Rachel Timmons
Professor of Education
B.S., Concordia Teacher's College; M.A., Michigan State University; Ed.D., La Sierra University.

David Toledo
Assistant Professor of Music
B.M., Northwestern State University; M.M., Ph.D., Southwestern Baptist Theological Seminary.

Stacey Toro
Associate Professor of Nursing
B.S.N., M.B.A., M.S.N., University of Phoenix; D.N.P., California Baptist University.

Nidia Torres
Assistant Professor of Nursing
B.S., University of Phoenix; M.S.N., California Baptist University; D.N.P., University of Arizona.

Erika Travis
Associate Professor of English and Behavioral Science
B.A., M.A., California Baptist University; Ph.D. Claremont Graduate University.

Jennifer Tronti
Assistant Professor of English
B.A., California Baptist University; M.A., Claremont Graduate University; M.A., Pacifica Graduate Institute.

Jones Tsai
Assistant Professor of Biochemistry
B.S., University of California, San Diego; M.S., Ph.D., Columbia University.

V

Phil Van Haaster
Assistant Professor of Mechanical Engineering
B.S., University of Southern California; M.S., University of California, Los Angeles; D.B.A., California Baptist University.

Gaynell Vanderslice
Assistant Professor of Management
B.A., M.B.A., California State University, San Bernardino; Ph.D., Alliant International University.

Veola Vazquez
Professor of Psychology
B.A., California Baptist University, M.A., Ph.D., Biola University.

Laura Veltman
Professor of English
B.A., Calvin College; M.A., Ph.D., University of Wisconsin, Madison.

Andrés D. Vera
Assistant Professor of Christian Ministries
B.S., McMaster University; M.Div., Southern Baptist Theological Seminary.

Candace Vickers
Professor of Communication Sciences and Disorders
B.A., M.S., Chapman University; Ph.D., Claremont Graduate University.

W

Caleb Walder
Associate Professor of Architecture
B.S., M.Arch., University of Illinois, Urbana-Champaign.

Deron Walker
Professor of English
B.A., M.A., Eastern Illinois University; Ph.D., Southern Illinois University.

Doug Wallace
Associate Professor of Sociology
B.S., Missouri Southern State University; M.A., Ph.D., Kansas State University.

Keith Walters
Professor of Education
B.A., Calvin College; M.A., California State University, Long Beach; Ed.D., University of Southern California.

Nancy Ward
Lecturer, Visual Arts
B.F.A., California State University, Fullerton; M.F.A., Azusa Pacific University.

Tracy Ward
Professor of Behavioral Science and Education
B.S., Stephen F. Austin State University; M.Div., Golden Gate Baptist Theological Seminary; M.Ed., Azusa Pacific University; Ph.D., Claremont Graduate University.

Sam Welbaum
Assistant Professor of Christian Ministries
B.A., California Baptist University; M.A., Biola University; M.T.S., Golden Gate Baptist Theological Seminary; Ph.D., Claremont Graduate University.

Marc Weniger
Professor of Business
B.S., Lewis University; M.B.A., University of Phoenix, M.A., Ph.D., Fielding Graduate University.

Ruth Noemy Wheeler
Lecturer of Music
B.A., Superior Conservatory of Music; M.M. California Baptist University.

Jeri Whitfield
Assistant Professor of Nursing
A.D.N., B.S.N., Mesa State College; B.A., Colorado State University; M.Div., Golden Gate Baptist Theological Seminary; D.Min., Gateway Seminary.

Melissa Wigginton
Professor of Health Science
B.S., California State University, San Bernardino; M.S., California State University, Fullerton; Dr.P.H., Loma Linda University.

Shawn Wilhite
Associate Professor of Christian Studies
B.A., California Baptist University; M.Div., Th.M., Master's Seminary; Th.M., Ph.D., Southern Baptist Theological Seminary.

Robert Willett
Associate Professor of Mathematics
B.S., California Baptist University; M.S., Ph.D., University of California, Riverside.

Danny K. Wilson
Professor of Biblical Studies
B.A., Union University; M.Div., Ph.D., Southwestern Baptist Theological Seminary.

Natalie Winter
Professor of Business Administration
B.S., M.B.A., Azusa Pacific University; Ed.D., Pepperdine University.

Christopher K. Wright
Assistant Professor of Graphic Arts
B.F.A., Virginia Commonwealth University; M.A., M.F.A., Savannah College of Art and Design.

Helen Xu
Associate Librarian
B.A., East China Normal University; M.L.I.S., San Jose State University.

Y

James Yoo
Associate Professor of Economics
B.A., Sungkyunkwan University; M.A., Northern Illinois University; Ph.D., Pennsylvania State University.

Karim Youssef
Assistant Professor of Architecture
M.S., University of Montreal; Ph.D., University of Calgary.

Z

Kathryn Zeeb
Assistant Librarian
B.A., California State University, Fullerton; M.L.I.S., San Jose State University.

Effat Zeidan
Assistant Professor of General Education
B.S., American University of Beirut; Ph.D., University of North Carolina, Greensboro.

Jun Zhang
Professor of Industrial Engineering
B.S., M.S., Beijing Institute of Technology; Ph.D., Purdue University.

Xueyan Zhao
Associate Professor of Chemical Engineering
B.S., M.S., Tianjin University; M.S., University of Akron; Ph.D., University of Minnesota, St. Paul.

Qing Zheng
Professor of Electrical and Computer Engineering
B.S., North China University of Technology; M.Eng., National University of Singapore; Eng.D., Cleveland State University.

Shasha Zheng
Associate Professor of Nutrition and Food Sciences
B.E., Southern Yangtze University; M.A., Boston University School of Medicine; Ph.D., University of Illinois, Urbana-Champaign.

Ziliang Zhou
Professor of Mechanical Engineering
B.S., Shanghai Jiao Tong University; M.S. University of Manitoba; M.B.A., University of Michigan; Ph.D., University of Kentucky.