



2025-2026 UNDERGRADUATE ACADEMIC CATALOG

Updated June 1, 2025

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Welcome to Oklahoma Christian University!

You have chosen to be a part of a Christian environment that is welcoming and friendly, and where we hope you will feel right at home. Lifelong friendships will be formed at OC, and you will be extremely well prepared to put your God given gifts and abilities to good use in your future career.

Long ago, I wrote my personal mission statement which states, "Be a teacher for the improvement of life according to the design and will of God." I hope you are already planning and dreaming about your future and how God can best use you for His glory. Oklahoma Christian has an outstanding faculty and staff that will provide you a first class education. They truly want you to succeed academically, and upon graduation, to go out from this very special place to be a blessing for the Lord's kingdom.

I have read lots of books in my lifetime, but I firmly believe the BEST book ever written on leadership is the Bible. In Esther 10:3, Mordecai was described as a man who, "...continued to work for the good of his people and to speak for the welfare of all their descendants." At OC, you will find many people who care about you as an individual and work for your good and speak up for your welfare. We want you to soar academically and grow spiritually!

As in most areas of life, you will get out of your experience at OC in proportion to what you put into it. Get involved. Step out of your comfort zone a bit, and be a friend to someone who needs one. Prepare for your classes – professors will

show up ready to go, make sure you do too. Ask for help when you need it – there are lots of folks here willing, ready and able to help. Join an academic or social service club. Support our excellent intercollegiate athletic teams, musical groups, etc. Participate in intramural sports. Attend a regular Bible study, and get involved in a campus ministry at a local church. Go on a mission trip or Study Abroad opportunity. All of these aspects of campus life will enrich your experience.

Thank you for choosing OC! We want your time here to be a blessing to you, your family and the Kingdom of God. We look forward to seeing how God transforms your life through OC, and no matter where your life's journey takes you, we hope you will always feel at home at OC.

God bless you,
L. Ken Jones, Ph.D.
President

A MESSAGE FROM THE PROVOST

Welcome to Oklahoma Christian University! Whether you are attending college for the first time, transferring from another university, or beginning your pursuit of graduate studies, we are delighted that you have chosen to join us for an exciting academic journey. We hope that journey will change your life in positive and profound ways, and in two primary senses.

First and foremost, OC is a university, and here you will find a vibrant community of scholars and students who find excitement in the process of discovering and sharing knowledge. With the increased rate of technological change and the advent of generative artificial intelligence, facing the challenges of our times requires a well-trained and agile mind. You will find here at OC a place where you learn the facts and tools of your selected discipline. More importantly, you will learn how to learn, so that you can continue to adapt and thrive in a dynamic world.

You will also find at Oklahoma Christian University a place that is proud of its middle name. We take our faith in Christ seriously and want it to shape everything we do. Here, you will be treated with respect, as one who is created in the image of God, and worthy of our

best efforts to help you become everything God intends for you to be. Our hope is that you will see faith displayed here in winsome ways as you decide what you believe about God and his will for your life, and how you will put your beliefs into practice.

Prepare for a challenging and joyful experience here at Oklahoma Christian University. We are glad you are with us.

Brian Starr, Ph.D.
Provost



BOARD OF TRUSTEES

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Thomas J. Trimble, J.D.
Scottsdale, Arizona

Wayne L. Warren
Broken Bow, Oklahoma

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President
B.S., Oklahoma State University
M.S., Oklahoma State University
Ph.D., Oklahoma State University

John deSteiguer (2002)
Chancellor
B.A., Northeastern State University
J.D., Pepperdine University

Stephen Eck (2000)
Chief Legal Officer
A.A., York College
B.A., Oklahoma Christian University
M.B.A., Mid-America Nazarene University
J.D., Oklahoma City University

Brian Starr (2023)
Provost
Assistant Professor of Finance
B.S., Abilene Christian University
M.B.A., University of Texas at Austin
M.A., Abilene Christian University
Ph.D., Texas Tech University

John Hermes (1993)
Chief Information and Campus Operations Officer
B.S., Oklahoma Christian University
M.S., Oklahoma State University

Christine Merideth (2000)
Chief Advancement Officer
B.S., Oklahoma Christian University

Neil Arter (1990)
Chief Student Life Officer
Dean of Students
B.S., Oklahoma Christian University
M.B.A., Oklahoma Christian University

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Chief Financial Officer
B.B.A., Oklahoma Christian University

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Chief Human Resources Officer
B.S., Southeastern State University
M.S., Texas A&M University – Commerce
D.B.A., Saint Leo University

FACULTY

Samantha Adee (2022)

Instructor of Chemistry
B.S., Oklahoma Christian University
M.S., University of Oklahoma

Cami Agan (1997)

Distinguished Professor of English
B.A., Oklahoma Christian University
M.A., Boston College
Ph.D., Duquesne University
2021 Gaylord Chair of Distinguished Teaching

Sara Alcon (2015)

Chair, Natural Sciences Program
Associate Professor of Biology
B.S., Oklahoma Christian University
Ph.D., University of New Mexico

Andrea Ashley (2023)

Assistant Professor of Electrical Engineering
B.S., Kettering University
M.S., University of Colorado
Ph.D., University of Colorado

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B.S., University of Tulsa
M.S., University of Tulsa
Ph.D., Vanderbilt University

Christopher Austin (2008)

Professor of Physics
B.S., Oklahoma Christian University
Ph.D., Oklahoma State University
2016 Gaylord Chair of Distinguished Teaching

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Chair, Graduate School of Theology
Distinguished Professor of Bible and Philosophy
B.A., Oklahoma Christian University
M.Div., Harding Graduate School
D.Phil., Oxford University
2001 Gaylord Chair of Distinguished Teaching

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Chair, School of Visual Art+Design
Associate Professor of Art+Design
B.S., Oklahoma Christian University
M.F.A., University of Central Oklahoma

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Dean, College of Bible
B.S., Oklahoma Christian University
M.A., Oklahoma Christian University
M.Div., Oklahoma Christian University
Ph.D., University of Oklahoma

Jeffrey Bigelow (1994)

Chair, Electrical and Computer Engineering
Professor of Electrical and Computer Engineering
B.S., Colorado State University
M.S., University of Illinois at Urbana
Ph.D., University of Illinois at Urbana

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Instructor of Music
Director of Choral & Vocal Studies
B.A., Abilene Christian University
M.M., Yale University

Sid Brown (2018)

Professor of Criminal Justice
B.A., Central State University
M.A., Central State University
J.D., Oklahoma City University

Jennifer Bryan (2003)

Chair, Mathematics
Professor Mathematics
B.S., Oklahoma Christian University
M.S., Oklahoma State University
Ph.D., Oklahoma State University

Allison Cassady (2011)

Chair, School of Education
Professor of Education
B.S., Texas A&M University
M.Ed., Texas A&M University
Ph.D., University of Texas

Joanie Chambers (2014)

Associate Professor of Education
B.S.E., Oklahoma Christian University
M.S.Ed., University of Central Oklahoma
Ph.D., University of Oklahoma
2025 Gaylord Chair of Distinguished Teaching

Curtis Coleman (2018)

Associate Professor of Computer Science
B.S., California State University
M.S., Norwich University
Ph.D. Candidate, Liberty University

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Program Director, MS in Human Science
Associate Professor of Marriage and Family Therapy
B.A., Central Baptist College
M.A., Oklahoma Baptist University
Ph.D., University of Louisiana Monroe

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Instructor of Mechanical Engineering
B.S.M.E., Oklahoma Christian University
M.S.E., Oklahoma Christian University

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Instructor of Graphic Design
B.F.A., Oklahoma Christian University

David Crismon (1991)

Professor of Art+Design
B.F.A., Kansas Art Institute
M.F.A., University of Oklahoma
2006 Gaylord Chair of Distinguished Teaching

Glen Davis (2024)

Assistant Professor of Computer Science
B.A., Oklahoma Christian University
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Chair, School of Nursing
Assistant Professor of Nursing
B.A., Fisk University
B.S., West Suburban College of Nursing
M.S., Oklahoma Wesleyan University

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Assistant Professor of Psychology
B.S., Oklahoma Christian University
M.S., Florida Institute of Technology

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Assistant Professor of Electrical and Computer Engineering
B.S.E.E., Oklahoma State University
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Ph.D., Southern Methodist University

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Professor of Music
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M.M., University of Missouri-Kansas City
D.M.A., University of Oklahoma
2010 Gaylord Chair of Distinguished Teaching

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M.B.A., Abilene Christian University
Ed.D., Oklahoma State University

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Instructor of Computer Science
B.S.C.E., Oklahoma Christian University
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M.S.N., University of Oklahoma

John Harrison (2000)

Professor of New Testament and Ministry
B.A., David Lipscomb University
M.A., Wheaton Graduate School
Ph.D., University of Edinburgh
2024 Gaylord Chair of Distinguished Teaching

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Professor of Exercise Science
B.S., Oklahoma Christian University
M.S., University of Oklahoma
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Professor of Mathematics
B.S., University of Idaho
M.S., University of Idaho
Ph.D., University of Oklahoma
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Associate Professor of Biology
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 M.S., University of Oklahoma Health Sciences Center
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 Ph.D., University of Oklahoma

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Assistant Professor of Marriage and Family Therapy
 B.S., Oklahoma State University
 M.S., Oklahoma State University
 Ph.D., Swansea University

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Associate Professor of Chemistry
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Bobby Kern (2012)

Chair, Psychology and Family Science
 Professor of Psychology and Family Science
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 M.A., Oklahoma Christian University
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Dean, College of Outreach and Innovation
 Assistant Professor
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 B.A., Abilene Christian University
 M.Div., Abilene Christian University
 M.A., Abilene Christian University
 Ph.D. Candidate, Saint Louis University

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 B.S., Oklahoma Christian University
 M.A., Oklahoma Christian University

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 B.S.N., University of Central Oklahoma
 M.S.N., Oklahoma Baptist University

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Assistant Professor of Computer Science
 B.A., Henan University
 M.S., University of Central Oklahoma
 Ph.D. Candidate, University of Texas at Dallas

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Associate Professor of Biology
 B.S., Oklahoma Christian University
 Ph.D., Colorado State University

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Professor of Communication
 B.S., Abilene Christian University
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Associate Professor of Electrical and Computer Engineering
 B.S.E.E., University of Kansas
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Chair, History, Political Science and Criminal Justice
 Professor of History
 B.S., Abilene Christian University
 M.A., Sam Houston State University
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 B.S.N., Oklahoma Christian University
 M.S.N., University of Oklahoma

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Assistant Professor of Business
 B.S., Oklahoma Christian University
 M.A., University of Oklahoma
 D.B.A., Grand Canyon University

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Professor of Business
 B.S., Oklahoma State University
 M.B.A., Cameron University
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Chair, Language and Literature
 Professor of English
 B.A., Oklahoma Christian University
 M.A., University of Mississippi
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Professor of English
 B.A., Oklahoma Christian University
 M.A., Oklahoma State University
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 2013 Gaylord Chair of Distinguished Teaching

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Associate Provost, Graduate Studies
 Dean, College of Engineering and Computer Science Chair,
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 B.S.M.E., Oklahoma Christian University
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Professor of Psychology
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 M.Ed., University of Central Oklahoma
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 Professor of Chemistry
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Chair, Computer Science
 Associate Professor of Computer Science
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 B.S., Northern Kentucky University
 M.A., Miami University
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Director, International Programs
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Clinical Instructor
 B.S., Oklahoma State University
 M.S., Oklahoma State University

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Distinguished Professor of Communication
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 B.A., Lubbock Christian University
 M.A., Abilene Christian University
 Ph.D., University of Oklahoma
 1988 Gaylord Chair of Distinguished Teaching

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Assistant Professor of Electrical Engineering
 B.S., Oklahoma Christian University
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Chair, Mechanical Engineering
 Associate Professor of Mechanical Engineering
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 M.S., Texas A&M University
 Ph.D., Texas A&M University

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Assistant Professor of Accounting
 B.B.A., Oklahoma Christian University
 M.Acc., University of Nebraska, Omaha

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Assistant Professor of Nursing
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 M.S.N., University of Oklahoma Health Sciences Center

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Assistant Professor of Mechanical Engineering
 B.S.M.E., Oklahoma Christian University
 M.S.M.E., Oklahoma State University
 Ph.D., Oklahoma State University

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Professor of Business
 B.S., Oklahoma Christian University
 M.B.A., University of Oklahoma
 D.B.A., Anderson University
 2020 Gaylord Chair of Distinguished Teaching

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Assistant Professor of
Music Band Director
B.A., Spring Arbor University
M.M.E., University of Wyoming
D.M.A., University of Oklahoma

Beth Scott (2006)

Assistant Professor of Nursing
B.S., University of Central Oklahoma
M.S.N., University of Oklahoma Health Sciences Center

Nathan Shank (2014)

Associate Professor of
English B.A., Harding
University
M.A., University of
Oklahoma Ph.D., University
of Kentucky

Brian Simmons (2014)

Dean, College of Liberal Arts
Chair, Communication
Professor of Communication
B.S., Oklahoma Christian College
M.A., Pepperdine University
Ph.D., Purdue University
2018 Gaylord Chair of Distinguished Teaching

Jeffery Simmons (2008)

Dean, College of Business
Chair, Graduate School of Business Professor of Business
B.S., Oklahoma Christian University
M.I.M., Thunderbird School of Global Management
D.B.A., Nova Southeastern University

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Professor of Marketing
B.S., Oklahoma State University
M.S., Oklahoma State University
Ed.D., Oklahoma State University
2009 Gaylord Chair of Distinguished Teaching

Emily Smith (2020)

Assistant Professor of History
B.A., Oklahoma Christian University
M.A., Oklahoma State University
Ph.D., Oklahoma State University

Megan Smith

Chair, Work-based Nursing
Associate Professor of Nursing
B.S.N., Bob Jones University
M.S.N., Oklahoma Baptist University
Ed.D., Western Connecticut State University

Pat Smith (2006)

Associate Professor of Computer Science
B.S., University of Oklahoma
M.S., Colorado State University
2017 Gaylord Chair of Distinguished Teaching

Brent Sykes (2025)

Dean, College of Sciences and Education
Professor of Education
B.A., University of Central Oklahoma
M.Ed., University of Oklahoma
Ph.D., University of Oklahoma

Grant Testut (2011)

Professor of Bible
B.A., David Lipscomb University
M.Ph., Hebrew Union College
Ph.D., Hebrew Union College

Jacob Touchstone (2019)

Assistant Professor of Gaming and Animation
B.F.A., Oklahoma Christian University
M.F.A., Savannah College of Art and Design

David Waldo (1996)

Professor of Electrical and Computer Engineering
B.S., Texas A&M University
Ph.D., Drexel University

Brynn Walker (2025)

Instructor of Business
B.B.A., Oklahoma Christian University
M.Acc., Oklahoma Christian University

Katie Walker (2023)

Assistant Professor of Biology
B.S., Southwestern Oklahoma State University
D.P.T., Langston University

Tina Ware (1998)

Professor of Spanish
B.A., Baylor University
M.A., Baylor University
Ph.D., Texas Tech University

Josh Watson (2008)

Associate Professor of Communication
B.A., Freed Hardeman University
M.A., East Tennessee State University
Ph.D., University of Oklahoma

Steve Yerkes (2025)

Visiting Assistant Professor of Finance
B.A., Azusa Pacific University
M.S., The American College

OC AT A GLANCE

Oklahoma Christian University (OC) is a higher learning community that educates, mentors and inspires learners to fulfill their God-given potential. OC is a comprehensive institution of serious academic inquiry grounded deeply in the liberal arts and the Christian faith, while also providing excellent professional, pre-professional, and graduate programs. It is affiliated with the churches of Christ, but students of all faiths are welcome. The majority of full-time faculty and students are members of the churches of Christ. The university enrolls approximately 2,700 students.

CONCURRENT PROGRAM

Concurrent coursework is available for high school students to earn college credits and progress towards high school graduation simultaneously.

ASSOCIATE DEGREE PROGRAM

Through the Associate of Science (A.S.) degree, OC offers lower division preparation for almost all bachelor degree programs. The A.S. degree provides the course of study equivalent to those offered in the freshman and sophomore year of OC's four-year programs and consist of general education requirements and electives to prepare for a bachelor degree. Academic advisors may work with students who are planning to pursue a bachelor degree in order to ensure that prerequisites are met through the A.S. degree plan of study.

BACHELOR DEGREE PROGRAMS

Oklahoma Christian University offers degree programs in:

Bible

Business

Communication

Computer Science

Education

Engineering

History, Political Science and Criminal Justice

Interdisciplinary Studies

Language and Literature

Mathematics

Medical Laboratory Science

Music

Natural Sciences

Nursing

Psychology and Family Science

Visual Art + Design

GRADUATE STUDIES INFORMATION

The University also offers several graduate degrees. For additional information about the University's graduate programs, please visit www.oc.edu/academics/graduate-programs.

ACCREDITATION

Oklahoma Christian is accredited by the Higher Learning Commission.

230 South LaSalle Street, Ste. 7-500

Chicago, Illinois 60604-1413

Phone: 800-621-7440 | 312-263-0456 | Fax: 312-263-7462

www.hlcommission.org | info@hlcommission.org

Additional Accreditations

The undergraduate and graduate business programs are accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

11520 West 119th Street

Overland Park, KS 66213

Phone: 913-339-9356 | Fax: 913-339-6226

www.acbsp.org | info@acbsp.org

The University is approved by the Oklahoma State Department of Education to recommend students for teacher certification. The Professional Education Unit at Oklahoma Christian University is accredited by the Council for the Accreditation of Educator Preparation (CAEP), www.caepnet.org. This accreditation covers initial teacher preparation programs. However, the accreditation does not include individual education courses that the institution offers to P-12 educators for professional development, relicensure, or other purposes.

1140 19th Street, Ste. 400

Washington, DC 20036

Phone: 202-223-0077 | Fax: 202-296-6620

www.caepnet.org | caep@caepnet.org

The undergraduate computer, electrical, and mechanical engineering degree programs are accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

The Interior Architecture program leading to the B.F.A. degree is accredited by the Council for Interior Design Accreditation (CIDA).

206 Grandville Ave., Ste. 350

Grand Rapids, MI 49503

Phone: 616-458-0400 | Fax: 616-458-0460

www.accreditit-id.org | info@accreditit-id.org

The music programs are accredited by the National Association of Schools of Music (NASM).

11250 Roger Bacon Drive, Ste. 21

Reston, VA 20190

Phone: 703-437-0700 | Fax: 703-437-6312

www.nasm.arts-accredit.org | info@arts-accredit.org

The B.S.N. degree at OC is accredited by the Commission of Collegiate Nursing Education (CCNE).

655 K. Street NW

Washington, DC 20001

Phone: 202-887-6791

www.aacn.nche.edu/ccne-accreditation | info@aacn.nche.edu

The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

5600 N. River Rd, Suite 720

Rosemont, IL 60018-5119

Phone: 773.714.8880 <https://www.naacls.org/> | info@naacls.org

CERTIFICATIONS

The baccalaureate degree program in Human Science/Family Science is certified as a Family Life Education (FLE) program by the National Council on Family Relations.

Students who graduate with the degree can apply for their provisional FLE certification.

EQUAL OPPORTUNITY STATEMENT

In compliance with Title VI and Title VII of the Civil Rights Act of 1964, Executive Order 246 as amended, Title IX of The Education Amendments of 1972, Sections 503 and 504 of The Rehabilitation Act of 1973, the Americans With Disabilities Act of 1990, the Family and Medical Leave Act of 1993, the Civil Rights Act of 1999, and other Federal Laws and Regulations, Oklahoma Christian University does not discriminate on the basis of race, color, national origin, sex, age, handicap, disability, or status as a veteran in any of its policies, practices, or procedures; this includes but is not limited to admissions, employment, financial aid, and educational services. The designated Title IX Coordinator is Ms. Tamie Willis, at 405-425-6463, 2501 E. Memorial Road, Edmond, Oklahoma 73013.

OFFICIAL REPOSITORY

Oklahoma Christian University is the official repository for Baker College, Cascade College, Columbia Christian College, Magic Valley Christian College, and Ohio Valley University. These academic records may be acquired by requesting your transcript at www.oc.edu/registrar.

This catalog contains official announcements of courses for the 2024-2025 academic year. Oklahoma Christian reserves the right to repeal, change, or amend the rules, regulations, and provisions contained in this catalog and may withdraw or modify the programs and courses described. OC reserves the right to change fees, modify services, or change its program should economic conditions, national emergency, or other force majeure make it necessary to do so. Fees, tuition, programs, courses, course content, instructors, and university policies and regulations are subject to change without notice.

MISSION STATEMENT

Oklahoma Christian University educates, mentors and inspires learners to fulfill their God-given potential.

CONVERGE UNIVERSITY LEARNING OUTCOMES

As a Christian community of learning, we seek the following University Learning Outcomes:

Active Faith

A graduate of Oklahoma Christian University is able to:

1. Understand the living implications of Christian discipleship and
2. Demonstrate a mastery of scriptures and doctrine sufficient to support a life of service to the Christian community and the wider society.

Foundational Knowledge

A graduate of Oklahoma Christian University is able to command a diverse knowledge base and effectively apply it as an educated Christian.

Information Literacy

A graduate of Oklahoma Christian University is able to:

1. Recognize when information is needed and
2. Locate, evaluate, and use the needed information effectively and ethically.

Structured Reasoning

A graduate of Oklahoma Christian University is able to use the appropriate quantitative and qualitative methodologies to process and organize information into useful forms and models.

Critical and Creative Thinking

A graduate of Oklahoma Christian University is able to reach, accept, or create appropriate conclusions and works after a comprehensive exploration of options, issues, ideas, artifacts, and events.

Effective Communication

A graduate of Oklahoma Christian University is able to use an understanding of how meanings are constructed between people to form relationships and communicate information effectively via oral, written, and interpersonal means.

Personal, Social, and Global Stewardship

A graduate of Oklahoma Christian University is able to:

1. Demonstrate awareness of the impact the graduate, other individuals, and societies can have on their world and
2. Express that awareness with compassion and respect for self and others of similar and different worldviews and cultures.

These seven university outcomes inform what is done in the Oklahoma Christian University community life, in the majors, and in the core. Concerning the core specifically, the faculty recognizes that these outcomes can be accomplished through a variety of courses and experiences. Accordingly, the faculty has designed a tiered, degree-based core curriculum focused on the liberal arts and based on seven general categories. The core curriculum consists of 51 semester hours in the liberal arts; 39 hours specifically satisfy the seven categories: Bible, communication (written and oral), behavioral/social science, great works, history, mathematics, and science, with 12 additional hours of liberal arts courses which may vary according to your degree. These requirements were determined by the mission and purpose of the faculty and the faculty's judgment regarding the common needs of all students.

To achieve these objectives, the faculty has established degree-based core curriculum requirements that are listed within the departmental sections of this catalog.

SPIRITUAL LIFE

One of the great benefits of attending OC is the opportunity for spiritual growth and connection. This comes from lifelong Christian friendships, along with all of our faculty and staff being followers of Jesus Christ too.

Chapel

The campus meets Monday and Tuesday at 11:00 am for chapel in Baugh Auditorium. Other small chapels meet Wednesday, Thursday and Friday.

Devotionals

There are many other voluntary devotionals and Bible studies around campus during the week. This includes a university-wide devotional every Monday evening at 10:00 pm in Scott Chapel. These times provide inspirational worship and a deep sense of community.

Local Churches

Churches throughout the Oklahoma City area will welcome you to worship and serve with them. Many nearby congregations have campus ministries that are tailored to help our OC students find their places in a local church. Several of these churches also offer college adoption programs to help students connect with local families.

Missions

At some point during their time at OC, many of our students engage in mission efforts. Groups begin forming early in the academic year to plan for their trips, learn the culture, customs and language of the places they plan to visit during the coming year. Groups have gone to American Samoa, Australia, Austria, Belgium Brazil, Canada, China, Croatia, England, France, Germany, Ghana, Greece, Guatemala, Haiti, Honduras, Ireland, Japan, the Kingdom of Eswatini, Malawi, Malaysia, New Zealand, Nicaragua, Panama, Peru, Rwanda, Scotland, Spain, Tanzania, Thailand, Uganda, Ukraine, and Vanuatu, as well as parts of the United States.

APPLICATION INFORMATION

For answers to questions or for an application, please contact Admissions at:

Office of Admissions

Oklahoma Christian University

P.O. Box 11000

Oklahoma City, OK 73136-1100

405-425-5050 or 800-877-5010

<http://www.oc.edu/admissions> | admissionsoffice@oc.edu

FINANCIAL SERVICES

For more information about OC's financial policies and procedures, please visit:

<https://www.oc.edu/admissions/financial-services/financial-policies>

2024-2025 ATTENDANCE COSTS**TUITION - FALL/SPRING/SUMMER****Full-Time Students, Per Semester**

12-17 semester hours	\$13,400.00
Hours over 17, per semester hour	\$ 775.00
Audit fees, per semester hour	\$ 50.00
Concurrent students, per course	\$ 245.00
Summer/Winter Terms, per semester hour	\$ 465.00
Winter Term, per semester hour	\$ 465.00

**Scholarships do not apply in summer/winter sessions*

Part-Time Students

Part-time students (fewer than 12 hours), per semester hour	\$ 1,100.00
Academy of Alternative Certification students, per course	\$ 750.00

College of Outreach and Innovation Students

Adult online students, per semester hour	\$ 295.00
Paraprofessional students, per semester hour	\$ 275.00

**Additional costs for books and course fees. Scholarships do not apply.*

MANDATORY AND COURSE-RELATED FEES**Mandatory Fees, Per Semester**

Commuter Fee (non-residential students only)	\$ 300.00
International Administrative Fee (\$100/Summer)	\$ 200.00
Parking Permit, per year	\$ 50.00
Student Services Fee, full-time	\$ 275.00
Student Services Fee, part-time	\$ 140.00
Technology and Infrastructure Fee, full-time	\$ 425.00
Technology and Infrastructure Fee, part-time	\$ 215.00

Course-Related Fees

Art and Design, per course	\$ 50.00
Biology: Human Anatomy w/ Cadaver Lab, per course	\$ 400.00
Business Software License Fee, per course	\$ 150.00
Club Athletic Fee, per semester	\$ 300.00
Finance Lab/Software Fee, per course	\$ 45.00
General Physical Science, per course	\$ 100.00
Intermediate Algebra, per semester	\$ 75.00
Math/Computer Science Lab Fee, per course	\$ 100.00
Medical Lab Science: Immunohematology Lab Fee, per course	\$ 250.00
Metacognitive Writing Strategies Lab, per course	\$ 120.00
MFT Practicum Fee, per course	\$ 75.00
Music Accompanist Fee, as needed per use	TBD
Music Private Lesson Fee, per hour	\$ 260.00
NCAA Athletic Fee, per semester	\$ 150.00
Nursing Clinical Fee, per clinical course	\$ 450.00
Science & Engineering Labs, per course	\$ 200.00
Spanish Immersion Lab, per course	\$ 105.00

SPECIAL COSTS

English as a Second Language TOEFL Exam Fee, one-time charge	\$ 200.00
Enrollment Deposit (not refundable after May 1)	\$ 250.00
Graduation Fee, one-time charge	\$ 100.00
Health Insurance, Annual 8/1/24-7/31/25	TBD

***Required of all students who have not given proof of insurance on their myOC account by 09/15/25 (Fall term) and by 01/31/26 (Spring term).*

ID Activity Card and Replacement, each	\$ 10.00
Parking Permit, per year	\$ 50.00
Take Flight, one-time charge, from deposit	\$ 150.00
Transcripts (request online at www.oc.edu/registrar), per transcript	\$ 8.00

RESIDENCE HALLS

Dorms	Semester	Annually
Standard Dorms (Shared Room)	\$2,300.00	\$4,600.00
Standard Dorms (Private Room)	\$3,200.00	\$6,400.00
Premium Dorms (Shared Room)	\$2,900.00	\$5,800.00
Premium Dorms (Private Room)	\$3,800.00	\$7,600.00

Apartments

	Semester	Annually
Standard Apartments (Shared Room)	\$2,500.00	\$5,000.00
Standard Apartments (Private Room)	\$3,400.00	\$6,800.00
Premium Apartments (Shared Room)	\$3,500.00	\$7,000.00
Premium Apartments (Private Room)	\$4,400.00	\$8,800.00

MEAL PLAN

**Meal plans are required for all UG students, excluding married students, living on campus.*

Dorm residents	Semester	Annually
15 meals per week + 100 Eagle Bucks	\$2,350.00	\$4,700.00
19 meals/week + 150 Eagle Bucks	\$2,620.00	\$5,240.00
All Access 5 (M-F) + 100 Eagle Bucks	\$2,260.00	\$4,520.00
All Access 7 + 100 Eagle Bucks	\$2,520.00	\$5,040.00

Apartments residents

	Semester	Annually
75 meals + 100 Eagle Bucks	\$ 900.00	\$1,800.00
75 meals + 200 Eagle Bucks	\$ 1,000.00	\$2,000.00
75 meals + 400 Eagle Bucks	\$1,200.00	\$2,400.00
105 meals + 100 Eagle Bucks	\$1,225.00	\$2,450.00
105 meals + 200 Eagle Bucks	\$1,325.00	\$2,650.00
105 meals + 400 Eagle Bucks	\$1,525.00	\$3,050.00

FINANCIAL INFORMATION

Because many students need financial help to attend a university, Oklahoma Christian provides a wide variety of financial aid programs. Money for higher education is available from a variety of sources, including federal aid programs, state aid programs, loans, grants, scholarships, and on-campus and off-campus jobs.

The Free Application for Federal Student Aid (FAFSA) determines eligibility for aid. The application form is available online at www.studentaid.gov.

As a private university, OC does not charge out-of-state tuition. Courses taken during the summer term will be billed based on the rate of summer tuition. Students may not complete coursework during a summer term and apply the credit hours to a fall or spring semester.

TYPICAL EXPENSES

As is the case in virtually all private institutions, you pay for only part of the total cost of your education. Because OC is a private university that receives no state support, additional funds are donated by individuals and firms interested in the programs that OC offers. Most students who attend OC will incur the following expenses:

Tuition (12-17 hours), per semester	\$13,400.00
Average room cost for freshmen, per semester	\$ 2,300.00
Meal Plan, 15 meals/week + 100 Eagle Bucks per semester	\$ 2,350.00
Student Services Fee	\$ 275.00
<u>Technology and Infrastructure Fee</u>	<u>\$ 425.00</u>
Total	\$18,750.00

The tuition charge of \$13,400 per semester is for 12 to 17 semester hours. Some programs may have course related fees. Fees are separate charges from this tuition. Students enrolling in more than 17 credit hours per semester pay \$775 for each hour above 17.

PAYMENT

Student Account and Agreement Form

All students will receive a link to the Student Account and Agreements form once enrolled. This is required and should be completed no later than August 1 in order for all financial aid to be ready once the semester begins. Payment of expenses may be arranged under one (or a combination) of four account payment options. Full payment is due the first day of the semester, each term unless other payment arrangements have been made.

Plan 1 - Cash at Enrollment

This is the best form of payment because it eliminates all service charges. Students should be prepared to make payment for tuition, fees, and room and board two weeks prior to each semester. Checks should be made payable to OC. The University also accepts four major credit cards (American Express, Discover, MasterCard, and Visa), which can be used to pay any part of the total student charges. Those who pay with a credit card will be charged a 2.95% convenience fee.

Plan 2 - Installment Payment Plan

This monthly payment plan is available through the student's online account at <http://my.oc.edu>. The first payment is due upon enrollment in the payment plan. There is a \$25 enrollment fee per semester. No finance charges are assessed to the student's account as long as the contract payments are made on time each month. Students can access their student account by clicking on "Student Account Online" located on myOC under QuickLinks.

Plan 3 - Parent Loan for Undergraduate Students (PLUS)

This is a fixed interest rate loan and is available to the parents of undergraduate, dependent students enrolled in at least a half-time course of study. The amount available is determined by the cost of education less the amount of other financial aid the student receives. Interest begins accruing when the loan is disbursed and repayment begins 60 days after the loan is fully disbursed. Parents may also defer repayments until their child has graduated or ceased attending at least half-time. The Student Financial Services Office must certify eligibility for the loan. Please contact the Student Financial Services Office or visit www.oc.edu/loans for additional information regarding this loan.

Plan 4 - Alternative Loans

Various student loans and student sponsor loans are available to students through private lenders. More information is available through the Student Financial Services Office. For more information, visit www.oc.edu/loans. For a complete listing of the University's financial policies, please be sure to visit <https://www.oc.edu/admissions/financial-services/financial-policies>.

WITHDRAW/REFUND POLICY

Withdraw Policy

Students must initiate a Withdrawal Form on myOC/Services or go by the Office of the Registrar to officially withdraw from the university. The signed and completed form will indicate the official withdrawal date for the student as determined by the Registrar, based upon the last date of attendance for the term. A link to the Registrar Office withdrawal process is [here](#).

Students are not withdrawn from classes for non-attendance online or in person. Lack of interest or participation in the education process does not replace an actual withdrawal; and students will be responsible for the cost of the course.

Refund Policy

Tuition refunds are made to students who officially withdraw from courses that are 11-weeks to 15-weeks in length or from the university before the fourth week of a semester. Refunds are given as follows:

- If the withdrawal date is in the FIRST WEEK (7 days), a 100% refund will be made.

- If the withdrawal date is in the SECOND WEEK, a 75% refund will be made.
- If the withdrawal date is in the THIRD WEEK, a 50% refund will be made.
- After the third week, no refunds will be made.

Tuition refunds are made to students who officially withdraw from courses that are 7-weeks to 10-weeks in length by the second week of class. Refunds are given as follows:

- If the withdrawal date is within the FIRST WEEK (7 days), a 100% refund will be made.
- If the withdrawal date is within the SECOND WEEK, a 50% refund will be made.
- After the second week, no refunds will be made.

Tuition refunds are made to students who officially withdraw from courses that are 1-week to 6-weeks in length (including Winter term courses) by the second day of class. Refunds are given as follows:

- If the withdrawal date is on the FIRST DAY, a 100% refund.
- If the withdrawal date is on the SECOND DAY, a 50% refund will be made.
- After the second day, no refunds will be made.

If the student drops a course and adds another course at a later time during the 100% refund period, it may result in additional charges. Students should always add and drop a course during the same session to avoid these charges.

FEDERAL FINANCIAL AID PROGRAMS

Applying for Aid

Interested students should complete a Free Application for Federal Student Aid (FAFSA) and the admissions application. Determination of the student's eligibility is based on family size, the number in college, income, resources, obligations, and the cost of the university. All information contained in these documents is held in strict confidence. The resulting financial aid report determines eligibility for a Federal Pell Grant, Federal Supplemental Education Opportunity Grant, Federal Work Study, Federal Direct Loan, Oklahoma Tuition Equalization Grant, and Oklahoma Tuition Aid Grant. The FAFSA is available each October for the following academic year.

Grant Programs

Federal Pell Grants are available to students. Eligibility is determined on the basis of need as defined by the Pell Grant Program Division of the U.S. Office of Education. Federal Supplemental Educational Opportunity Grants (SEOG) also are available to students. Pell Grant recipients are to receive priority consideration for SEOG awards. Oklahoma Tuition Aid Grants and Oklahoma Tuition Equalization Grants also are available to students. Eligibility is determined by the Oklahoma State Regents for Higher Education. Recipients must be legal residents of Oklahoma and complete the FAFSA no later than December 1.

Loan Programs

Federal Direct Loans are available for eligible students at a fixed interest rate. Subsidized and unsubsidized Direct Loans have a fixed interest rate. Students may borrow up to \$5,500 a year as a freshman, \$6,500 a year as a sophomore, and \$7,500 a year as a junior or senior. A loan application must be completed in addition to the FAFSA. Repayment begins six months after the student ceases to be enrolled at least half-time. There are two forms of the Federal Direct Loan. The Federal Subsidized Direct Loan is based on a student's need and the government pays the interest while the student is in school. The Federal Unsubsidized Direct Loan is based on the university's cost of attendance. The limit of unsubsidized takes into account the amount of subsidized received. The government does not pay interest on the unsubsidized loan while the student is in school. The student can choose to pay interest quarterly or add it to the loan principal. Please note there are deadlines associated with all federal loans. For more information, please contact Student Financial Services.

Parent Loans

Federal Parent Loans for Undergraduate Students (PLUS Loans) are unsubsidized federal loans for the parent and in the parent's name. It is a credit-based loan. A FAFSA for the student must be completed prior to application. Financial aid received by the student and the cost of attendance will determine eligibility. Families whose students who have little or no eligibility for the other federal aid programs may find the PLUS loan very beneficial. Parents must apply at www.studentaid.gov. Repayment begins 60 days after the loan is disbursed or parents may also defer repayments until their child has graduated or ceased attending at least half-time. Please note that there are deadlines associated with all federal loans. For more information, contact the Student Financial Services Office or visit www.oc.edu/loans.

Federal Work Program

Federal Work-Study (FWS) is an on-campus work program that allows you to earn a portion of your university expenses. Jobs include work in the cafeteria, library, maintenance office, and administrative offices. Generally, you can work an average of eight hours per week. Pay is at minimum wage. Awarding of FWS only indicates eligibility. You are responsible for finding a job. Job openings are posted on the university's website at www.oc.edu/campusjobs.

SCHOLARSHIP AND AID PROGRAMS

OC offers scholarships for student planning to attend the university based on financial need and merit. Information regarding available scholarships can be found at www.oc.edu/scholarships. Application forms are available through the Admissions Office and at www.oc.edu/admissions.

All academic merit scholarships for first-time freshmen are based on a combination of the student's highest composite ACT or SAT score, along with the student's unweighted high school GPA. Students may receive academic merit scholarships up to eight semesters. Recipients must maintain a specific cumulative college GPA to receive the award each semester. National Merit Scholars are awarded to recognize and encourage these students to attend OC. The University makes a very generous scholarship available. Applicants must submit a copy of the award letter or National Merit Certificate to the Student Financial Services Office to receive more information.

Oklahoma State Regents Scholarships are awarded to outstanding freshmen from Oklahoma based on the sum of their ACT subscores (or RSAT score). The minimum score required for the top half-percentile of students depends on different subdivisions of the population, as defined by the State Regents. Students also may qualify with nationally-recognized awards, such as a National Merit Scholar honor. The award is \$4,000 per year.

ROTC Scholarships are awarded competitively to students desiring to earn an Army or Air Force officer's commission while earning a baccalaureate degree. They are awarded on the basis of academic achievement, ACT score, physical examination, and interview data. The scholarship provides full tuition, books, and laboratory fees. Army scholarship recipients receive military instruction through an agreement with the University of Central Oklahoma. Application forms and more information may be obtained from Army ROTC, University of Central Oklahoma, Edmond, OK 73034; (405) 974-5167.

Employment opportunities are available for students who desire to work, but do not qualify for Federal Work Study programs.

OTHER AID PROGRAMS

Veterans Programs

Oklahoma Christian University is in compliance with PL 115-407 Veterans Benefits and Transition Act of 2018 Section 103 and will not have any policy inconsistent with 38 U.S. Code § 3679 (e).

BIA Grants

The Bureau of Indian Affairs can provide applications for grants. You must contact your tribe to determine eligibility criteria.

Vocational Rehabilitation Program

Vocational rehabilitation assistance is available to qualified applicants. High school counselors should be contacted for the address of local vocational rehabilitation counselors.

ADMISSIONS

To be accepted, students must complete the following steps:

FOR HIGH SCHOOL STUDENTS

1. Submit a completed application for admission
2. Submit an ACT, SAT, or CLT test score with an ACT (or equivalent) composite score of at least 19.

Eligible high school juniors may obtain early admission to OC and attend the summer session before their senior year and/or concurrent courses during their senior year of high school. To be granted full admission to Oklahoma Christian, high school students must submit an official high school transcript that shows evidence of graduation.

Alternative Pathway for Consideration for Admission

Students who do not submit an ACT (or equivalent) test score of at least 19 can qualify for consideration for admission to Oklahoma Christian University by submitting, in addition to their completed application for admission, an official high school transcript for review and a letter describing why they want to attend OC. Other steps may also be required. Please note that submitting an ACT (or equivalent) score, while not required for admission consideration, is strongly recommended because standardized test scores can reduce the number of classes a student must take to graduate and can lead to higher scholarship awards.

Residual ACT testing is offered on an appointment basis for those who have applied for admission to Oklahoma Christian. Call 405-425-5050 for an appointment. Residual test scores are mailed directly to the examinee with a copy kept by OC. The testing is given through OC. Residual ACT test scores are not sent to other universities. OC may not administer ACT residual testing on the same day that a national ACT exam is administered. National registration for the ACT exam is made through the national office.

ACT registration packets are normally available at any high school. They also may be ordered by mail by calling 319-337-1270 or by registering online at <http://www.act.org>.

FOR APPLICANTS OVER 18 WHO HAVE NOT GRADUATED FROM HIGH SCHOOL

1. Submit a completed application for admission
2. Submit evidence of having passed the GED test.

FOR APPLICANTS OVER 18 WHO HAVE GRADUATED FROM HIGH SCHOOL (OR EQUIVALENT GED):

1. Submit a completed application for admission.
2. Submit a high school transcript or evidence of having passed the GED test.
 - a. If evidence cannot be provided due to extenuating circumstances, the student will be required to submit a statement detailing the year of high school graduation or GED completion and reason an official document is not available.
 - b. In the case of no evidence being provided, the student may be accepted provisionally by the university and required to complete 15 hours of coursework with a GPA of 2.5 before matriculating into OC officially.
3. Submit an ACT, SAT, or CLT score.

- a. If an ACT, SAT, or CLT test score is not available and the student has five or more years of work experience, the following items will be required:
 - i. A work resume documenting the minimum five years of work and
 - ii. A recommendation letter from the current employer.
- b. In the case of no test scores being provided, the student may be accepted provisionally by the university and required to complete 15 hours of coursework with a GPA of 2.5 before matriculating into OC officially.

FOR TRANSFER STUDENTS FROM OTHER COLLEGES OR UNIVERSITIES

1. Submit a completed application for admission
2. Submit an official high school transcript (waived for students who have completed 24 or more semester hours of college credit).
3. Submit official academic transcripts from all colleges and universities previously attended.

Transfer students must be eligible to re-enter schools previously attended. Transfer credits will be accepted from nationally and regionally-accredited colleges and universities upon approval of the Registrar. A maximum of 65 semester hours from community colleges may be applied toward degree requirements.

FOR TRANSFER STUDENTS FROM PREACHER TRAINING SCHOOLS

1. Submit a completed application for admission
2. Submit an official high school transcript (waived for students who have completed 24 or more semester hours of college credit).
3. Submit a complete official transcript from the preacher training school attended.
4. Submit official academic transcripts from any other colleges and universities previously attended.

FOR INTERNATIONAL STUDENTS

Complete the application for admission online at www.oc.edu/apply. This school is authorized under Federal Law to enroll nonimmigrant students. Undergraduate international students must submit no less than \$3,500 as an enrollment deposit before enrolling in classes or securing a housing reservation. The deposit is fully refundable and will go towards the student's tuition for the first semester. Enrollment deposits may be paid online at <https://www.peertransfer.com/school/oc>.

Students must indicate the payment option for which they will pay the remaining portion of their enrollment cost by submitting a Payment Plan Form no later than two weeks before the first day of classes. Payment options include: an Installment Payment Plan (IPP), a loan from the student's home country, or making a cash payment equal to the amount of the remaining balance.

Proof of English Proficiency

Applicants who have not studied in a country where English is the PRIMARY language of instruction must take the Test of English as a Foreign Language (TOEFL) or International English Language Testing Service (IELTS) and arrange for the testing agency to send the test results to Oklahoma Christian University. The required TOEFL score is 61 IBT and IELTS is 6.0.

B.A. Degree Language Requirement

International students must successfully complete the Communication 9-hour sequence at OC with a grade of "C" or above in each course to meet the language requirement for the B.A. degree. They must also provide proof of a primary language other than English. See the Registrar's Office to complete this requirement.

Academic Documentation

Original or officially certified copies of all grade reports for all secondary and higher education studies, as well as original or officially certified copies of all academic diplomas, certificates, and national or other major examination results, must be submitted, along with an official English translation certified by the educational institution.

Financial Documentation

An applicant must provide proof of adequate funds, \$34,775 per year, to live and study full-time at Oklahoma Christian University. Applicants must submit a completed Financial Worksheet accompanied by an original bank verification letter or statement. The U.S. government requires this certification before OC can issue the appropriate U.S. government forms necessary for obtaining a visa at a U.S. embassy or consulate.

Statement of Understanding

An applicant must submit Oklahoma Christian University's Statement of Understanding outlining rules and expectations of the University. Once the above documents have been received and approved, a Certificate of Eligibility for Non-Immigrant (F-1) Student Status Form I-20 can be issued for those students requiring a student visa.

Transfer Students

A Transfer Release Form is required for international students transferring from another U.S. college or university. It must be signed by the applicant and completed by the current institution which holds the student's current I-20 record. Please note that students must hold legal status in the United States to be eligible for admission.

Admission to OC

Upon admission, first-time students and transfer students receive an I-20 and F-1 visa instructions from the Admissions Records Office in the Student Advocacy Center at OC. OC provides a wide range of support and services for international students. Assistance is provided in university enrollment, visa compliance, cross-cultural adjustment, and tutoring. You are invited to join the International-American Association, the campus association promoting cross-cultural friendships and awareness.

ACADEMIC POLICIES

CLASSIFICATION OF STUDENTS

The following terms and definitions classify students in attendance at OC:

Freshmen

Students with fewer than 30 semester hours credit.

Sophomores

Students with 30 to 59 semester hours credit.

Juniors

Students with 60 to 89 semester hours credit.

Seniors

Students with 90 or more semester hours credit.

Transfers

Students who have completed 16 or more college level hours since graduating from high school and before attending OC.

Full-Time

Students taking 12 semester hours or more during any semester.

Graduate

A student in a dual undergraduate/graduate degree program is considered a graduate student when they have completed eight full-time (12-hour) semesters, including full-time summer or winter semesters, of undergraduate studies. These full-time semesters may be completed at OC or another institution. The change to graduate student status will impact a student's use of scholarships, financial aid, and tuition rates.

Special

Students taking fewer than 12 semester hours during any semester.

Audit

An audit student is one who has obtained official permission to attend a course without taking it for university credit. A reduced tuition fee is charged for students who audit a course.

Unclassified

An unclassified student is one who has applied for admission, but who has not yet been officially admitted because sufficient information has not been received. If the necessary information is not submitted within 30 days, you will be asked to withdraw.

Leave of Absence

VA students who must leave OC to complete service requirements or because they are called to active duty may request a leave of absence for fall, spring, and/or summer semesters. A Leave of Absence Request Form must be completed and submitted to the Registrar as soon as the student learns that a leave of absence is necessary. If, at the end of the leave of absence period, the student does not return, the student's participation in the program will be terminated. Application for readmission will be required if the student wishes to return.

CLASS ATTENDANCE

Class Periods

Class periods and class formats vary according to the number of credits given for the course. Typically for face-to-face courses, three-hour courses meet for three 50-minute periods a week, two-hour courses meet twice a week, and one-hour courses meet once a week. Another common pattern for three-hour courses is to meet two periods per week at one hour and 15 minutes each. With the university's approach to instruction, however, many variations on this standard plan for class meetings give variety in scheduling. The achievement expected of you, however, still conforms to the expectation implicit in the awarding of semester hours credit.

Absence Policy

Attendance policies and penalties rest under the purview of the professor. Those professors who require attendance for your course must detail those requirements and penalties in your syllabi. Students who exceed the number of absences or otherwise fail to meet attendance policies will experience the consequences as the professor explains in the syllabus. These may include withdrawing you from a course if you miss more than a specified number of classes.

Faculty members are expected to establish reasonable absence policies. One fair model is to allow you to miss one week's worth of class before absences affect your grades. For example, if the class meets MWF, you would be allowed three absences without penalty.

Students who participate in OC activities should inform their professors in writing of the scheduled activities and absences the first week of class or as soon as possible. Professors should make every effort to work with those who conscientiously inform them of absences due to university activities. Absences due to official university activities such as intercollegiate athletic contests and musical performances should not penalize you per se. However, numerous absences may still affect test scores and other performance in any course.

ACADEMIC STATUS

Undergraduate students' academic status at OC can be classified and defined as follows:

Good Standing

To be considered in good standing, you must maintain the cumulative GPA shown below:

- Freshmen - 1.70 ("D")
- Sophomore - 2.0 ("C")
- Junior - 2.0 ("C")
- Senior - 2.0 ("C")

All students will have an academic status check at the end of each semester. Those who are not in good standing will be notified of their status.

Academic Alert

If your GPA for any semester, or if your cumulative GPA, falls below the level of good standing, you will be notified and placed on academic alert. Also, students with 64 or more hours and an undeclared major will be placed on academic alert.

Academic Probation

If your GPA for the semester and your cumulative GPA fall below the level of good standing, you will be placed on academic probation. After two semesters of academic probation, you may not be allowed to continue at the university without permission from the Academic Appeals Committee. Students on academic probation are ineligible for intercollegiate athletic competition or for performance in other university-sponsored activities.

Academic Suspension

When you have completed two semesters on academic probation without achieving the level of good standing, you may be suspended. Appeals of suspension should be addressed in writing to the Registrar, who will present the case to an academic suspension appeals committee. A suspended student may be re-admitted once, and the re-admitted student must attain a 2.0 GPA each semester while on probation. You will be removed from probation only when a cumulative GPA of 2.0 has been reached. The university may suspend or dismiss any student who fails to earn a GPA of at least 1.0 during a semester, regardless of classification or number of hours completed.

FINAL EXAMS

Generally, students may not reschedule final exams due to heavy testing in a single day. A student may request that his or her final examination in a class be rescheduled only where the student has more than three examinations scheduled for a single day. If a student wishes to reschedule a final exam, he or she must receive permission from the Dean. Final examinations will not be given early unless approved by the Deans' Council upon a showing of extraordinary circumstances. Examples of extraordinary circumstances are non-elective surgery or being called to active duty.

PROCTORED EXAMS

For all faculty who use or may use proctored exams in their courses regardless of delivery mode (face-to-face or online), the Federal Government and HLC requires that students be notified of the potential cost they may incur if the exam is proctored. If a course in an exam must be proctored, you must have your proctor identified and all proper forms turned in by the second week of class.

Choosing A Proctor

Some proctoring services may require a testing fee. Any testing fees will be the responsibility of the student. Proctoring options could include:

- Testing facility at a University or Community College campus (e.g., UCO Testing Center)
- Sylvan Learning Center (or equivalent)
- Federal Government Agency

Who Cannot Be A Proctor

- Relative or spouse
- Co-worker, business associate or supervisor

- Friend or peer
- Coach
- Another Oklahoma Christian University student

Exam Proctoring Expectations

- Proctors who do not fit the list of appropriate proctors will be refused.
- Proctors may expect payment for this service. Any costs involved are the student's responsibility. Discuss the number of exams and length of each with your proctor, as it requires a time commitment.
- Verify your proctor will be available for all of your exams. Your proctor must agree to return exams in a timely manner.

After Finding Your Proctor

- Have your proctor complete the Examination Proctor Agreement form.
- Submit your proctor form by the end of the second week of class.
- Confirmation will be sent to you and your proctor upon approval.

GRADING SYSTEM

Most courses use the standard letter grades: A, B, C, D, and F.

A: Superior performance in which the student demonstrates:

1. A thorough knowledge and retention of the factual material of the subject.
2. A thorough understanding of the principles of the material studied.
3. A timely and accurate completion of the course requirements such as homework, term papers, etc.
4. An ability to apply and correlate the subject material to the solution of new and different problems.

B: Good performance in which the student demonstrates:

1. An above average knowledge and retention of the factual material of the subject.
2. An adequate understanding of the principles of the material studied.
3. A timely and accurate completion of the course requirements.
4. Some ability to apply and correlate the subject material to the solution of new and different problems.

C: Adequate performance in which the student demonstrates:

1. An average knowledge and retention of the factual material of the subject.
2. Some understanding of the principles of the material studied.
3. Satisfactory completion of the course requirements.

D: Poor performance in which the student demonstrates:

1. Limited knowledge and retention of the factual material of the subject.
2. Limited or no understanding of the principles of the material studied.
3. Unsatisfactory completion of the course requirements.

F: Failing performance in which the student demonstrates:

1. Little or no knowledge and retention of the factual material of the subject.
2. Little or no understanding of the principles of the materials studied, and/or
3. A failure to satisfactorily complete the course requirements.

Other grades which may be awarded are as follows:

NP: A no-passing grade in a course that does not give a letter grade.

P: A passing grade in a course that does not give a letter grade.

P*: A passing grade is awarded for AP, CLEP, IB, credit by exam, or prior learning credit.

W: Withdrawn from a course after the fourth week but before the 12th week of a regular 15-week course, and after the first week but before the 7th week of a 7-week course.

I: Granted if you have not met the requirements of the course due to illness, an emergency, or some other cause deemed reasonable by the instructor. A grade of "I" is

not given when you have simply been negligent of class requirements. A grade of "I" is removed by the completion of the necessary work within six weeks after the semester ends. The professor has an option to grant an extension if warranted based on a request by you within the first six weeks. If a grade has not been submitted by the professor at the end of 12 weeks, the Registrar will convert the grade from an "I" to an "F".

The specific course requirements, such as term papers, homework, attendance, special projects, and the number and scope of examinations are at the discretion of each professor. You should consult the course syllabus for the specific requirements and grading scale for each class. If you repeat a course at OC, the higher grade only is used to compute the GPA. The original grade will remain on the transcript.

ACADEMIC HONORS

The Honor Roll recognizes students with a 3.40 (B) or above semester GPA.

The Deans' List honors those with a 3.85 (A) or above semester GPA.

The President's List honors those with 4.00 (A) grades semester GPA.

Graduating with Honors

Students graduate with honors at these levels:

- Cum laude - 3.40
- Magna cum laude - 3.60
- Summa cum laude - 3.85
- Honors Fellow - 3.40, with completion of honors core curriculum

POLICY ON ACADEMIC HONESTY

Cheating

Cheating on an examination, assignments, roll sheet, or any other course related work or activities undermines the ethics of the academy and the specific Christian purposes of Oklahoma Christian University. Accordingly, students who cheat on examinations, assignments, or other course related work or activities will face serious consequences, as outlined in this policy.

Plagiarism

One particular form of cheating is plagiarism. Plagiarism is the transmitting of another's ideas, words, or materials as one's own and/or the failure to accurately credit the ideas, words, or materials of another. Plagiarism also includes passing off the work of another (a friend, a parent, a website) as one's own. Plagiarism undermines the ethics of the academy and the specific Christian purposes of OC. Accordingly, students who engage in plagiarism in assignments submitted will face serious consequences, as outlined in the following policy.

PENALTIES FOR ACADEMIC DISHONESTY

On the first offense, the student will receive a "0" (zero) credit for the examination or assignment. For forms of cheating or dishonesty other than on examinations or assignments, the professor shall have the discretion to impose an appropriate penalty. Professors must send documentation of the first offense to the appropriate chair, the dean of the appropriate college, the Provost, and the Dean of Students.

On the second offense in the same course, the student will receive an "F" in the course. Professors must send documentation of the second offense to the appropriate chair, the dean of the appropriate college, the Provost, and the Dean of Students.

At either the first or second offense, the student may appeal using the process set forth for grade appeals. If a student commits offenses in two or more courses, the Academic Appeals Committee may assign penalties for academic dishonesty in addition to the penalties assigned by the professors in the courses. The Committee may assign penalties up to and including suspension from the University in instances where a student has engaged in cheating or plagiarism in two or more courses. The academic appeals committee will inform the Provost and the Dean of Students in writing of any

penalties imposed by it and will report annually on its activities to the university's academic appeals committee.

Professors should maintain the highest standards of academic honesty both in and out of the classroom. Professors must apply the rules regarding cheating and plagiarism and report to the appropriate channel.

STUDENT COMPLAINT SYSTEM AT OKLAHOMA CHRISTIAN UNIVERSITY

To improve the ease and accessibility of reporting student complaints, OC developed an online student complaint system that was deployed in the Fall 2016 semester. The student complaint system, accessible through the campus intranet, provides a single online portal for all types of student complaints. Students select one of four complaint categories (Title IX, Academic Appeals, Student Life, and Campus Police) and then complete the online form related to that category. Once completed and submitted, the form is automatically routed to the appropriate university employee (e.g., the Title IX coordinator, FERPA Officer, Dean of Students, or Campus Police department), who has a specified period of time to respond. Upon clicking the "submit" button, students receive an automated email confirming the submission and providing information about the expected response time. The responsible employee also receives an email notifying him or her of the complaint and reminder emails if the complaint is not resolved within the specified timeframe. All responses to the complaint and the complaint resolution are documented in the system, which provides a log of all complaints submitted as well as information about the response time for various areas.

GRADE APPEALS

Any student may appeal a final grade received in a course. To assure due process and protect the rights of both the student and the professor, the appeals procedure below must be followed. Except by this process, no student-appealed grade may be changed, and no student-contested academic action by a professor may be reversed.

Step 1 - Contact the Professor

A student who disagrees with a professor on a course grade or other grade related issue must contact the professor in writing to explain the concern or complaint. If the student does not bring the matter to the professor's attention within four weeks of the final grade report, the student loses the right of appeal. The professor has two weeks to respond in writing to the student's appeal.

Step 2 - Appeal to the Chair

If the interaction with the professor does not resolve the issue, the student has two weeks from that response to submit an appeal through the online Student Complaints system (available through myOC) to the chair of the professor's school or department. Otherwise the student loses the right of appeal and the issue is considered closed. If the professor is the chair, the student will take the appeal to the dean.

The appeal must include a written description of the circumstances as understood by the student. The chair will request any supporting documentation from the professor. The chair will discuss the complaint with the professor and, where appropriate, with other students. The chair will make a decision as soon as is reasonably practicable, but in no event longer than four weeks from the date of receipt of the appeal, and will communicate that decision in writing to the student. After receiving the appeal, the chair has two options: the chair may make the decision and explain it to the student and the professor within two weeks or, if the chair considers the matter sufficiently serious or complex, the chair may take the matter to the dean of the professor's college for further review and response.

Step 3 - Appeal to the Dean

If the chair makes the decision, and if the student or professor is not satisfied that the chair's decision is fair and just, either may appeal to the dean of the professor's college by submitting information through the online Student Complaints system within one week of the decision by the chair.

Upon receiving notice of the appeal, the dean will request from the chair any documents submitted by the professor that are not available through the Student Complaints system and the chair's rationale for the decision. The dean will discuss the matter with all those involved.

After receiving the appeal, the dean has two options: the dean may make the decision and present it in writing to the student, the professor, and the chair within four weeks or, if the dean considers the matter sufficiently serious or complex, the dean may take the matter to the Academic Appeals Committee.

Step 4 - Appeal to the Academic Appeals Committee

If the dean makes the decision, and if the student or professor is not satisfied that the dean's decision is fair and just, either may initiate an appeal to the Academic Appeals Committee by submitting information through the Student Complaints system within one week of the dean's decision. The dean will present any document submitted by the professor or gathered in evidence prior to the dean's decision that are not available through the Student Complaints system.

The Academic Appeals Committee will discuss the matter with the student and professor individually. The Academic Appeals Committee will decide the matter as soon as is reasonably practicable, but in no event longer than four weeks after the matter is submitted to it. After review, the decision of the Academic Appeals Committee is final and must be reported in writing within a week of the decision to all involved parties and to the Provost.

The time periods noted above may, in each instance, be extended due to extenuating circumstances or when the time period runs during school holiday periods, such as Christmas or summer break.

All academic appeals processes in programs or departments need to be clear that program-level appeals precede the institutional Academic Appeals Committee in order to be in compliance with the Department of Education and HLC standards, as well as appropriate legal practices. The Academic Appeals Committee appeal decisions supersede the program decisions.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

The Family Educational Rights and Privacy Act (FERPA) affords you certain rights with respect to your education records:

- The right to inspect and review your education records.
- The right to request the amendment of your education records to ensure that they are not inaccurate, misleading, or otherwise in violation of your privacy or other rights.
- The right to consent to disclosures of personally identifiable information contained in your education records, except to the extent that FERPA authorizes disclosure without consent.
- The right to file with the U.S. Department of Education a complaint concerning alleged failures by the university to comply with the requirements of FERPA.
- The right to obtain a copy of the university's student records policy.

You may obtain a copy of the policy from the Office of the Registrar in Cogswell-Alexander Hall. You will be notified annually of these rights in the Catalog and the Student Handbook.

Students may contact OC about FERPA-related complaints by using the Student Complaints form available through myOC (to file a FERPA-related complaint, access the form, then click on Student Life and select Miscellaneous). All complaints related to FERPA will be directed to the Registrar and FERPA officer, Karen Driskill.

Directory Information

Directory information is normally released without student consent. If a student does not wish such information to be made public, he or she can fill out a request form available in the Office of Student Life. Directory information is defined as: "information that would not generally be considered harmful or an invasion of privacy if disclosed," including, but not limited to, "the student's name; address; telephone listing; electronic mail address; photograph; date and place of birth; major field of study; grade level; enrollment status (e.g., undergraduate or graduate, full-time or part-time); dates of attendance; participation in officially recognized activities or sports; weight and height of members of athletic teams; degrees, honors and awards received; and the most recent educational agency or institution attended.

CLASS SCHEDULING

The university makes every reasonable effort to offer all classes for which registration has occurred. There are times, however, when insufficient enrollment in the class makes it necessary for the university to cancel the section. There are times when you may attempt to register for a class that has already been filled. Once a class is filled, students may place themselves on the waitlist for that particular section. Being on a waitlist does NOT guarantee registration in the class. Your position on a class waitlist is on a first-come, first-served basis. Registration from a waitlist is not automatic. Check your OC email daily; if you receive a notification, you will have to login to myOC and register within 24 hours or lose your position on the waitlist. Please keep these situations in mind as you schedule classes needed to complete your degree.

DROP AND ADD PROCEDURES

Dropping A Class

To drop a class, you must do the following:

- Get your advisor's signature on a change in enrollment form. For College of Outreach and Innovation students, the drop form is available on myOC.
- Get your professor's signature, unless the drop is made before the last day to add classes. (Not required for College of Outreach and Innovation students)
- Student-athletes must also obtain the signature of either the Assistant AD for Compliance or the Director of Academic Excellence in Athletics.
- Veterans should get a signature from the Veteran Certifying Official.
- International Students should get a signature from the SEVIS Coordinator.
- Take the drop/add slip to the Student Advocacy Center at Support Central.

Semester Drop Schedule

Weeks 1-4: No record of dropped course

Weeks 5-12: "W" recorded for dropped course

After Week 12: No dropping of course

DROP/ADD DATES FOR SPECIFIC TYPE OF CLASS STRUCTURE

Based on 15 hours of "seat time" per credit hour offered

Regular 15-Week Semester Class

Cannot add after the 1st week of class

Can drop without a grade of "W" week 1-4

Can drop with a grade of "W" week 5-12

Cannot drop after week 12

One-Week Course

Cannot add after the 1st class meets

Can drop without a grade of "W" day 1

Can drop with a grade of "W" day 2-4

Cannot drop after day 4

Two-Week Course

Cannot add after 1st class meets

Can drop without a grade of "W" days 1-2

Can drop with a grade of "W" days 3-8

Cannot drop days 9-10

Three-Week Course

Cannot add after 1st class meets

Can drop without grade of "W" days 1-3

Can drop with a grade of "W" days 4-12

Cannot drop days 13-15

Four-Week Course

Cannot add after day 2

Can drop without a grade of "W" days 1-4

Can drop with a grade of "W" days 5-16

Cannot drop days 17-20

Five-Week Course

Cannot add after day 2

Can drop without a grade of "W" days 1-5

Can drop with a grade of "W" days 6-20

Cannot drop days 21-25

Six-Week Course

Cannot add after day 2

Can drop without a grade of "W" days 1-5

Can drop with a grade of "W" days 6-20

Cannot drop days 20-25

Seven-Week Course

Cannot add after week 1

Can drop without a grade of "W" week 1

Can drop with a grade of "W" weeks 2-6

Cannot drop week 7

ADDING A CLASS

To add a class, you must do the following:

- Get your advisor's signature on a drop/add slip.
- Get the signature in the Registrar's Office if the addition is made after the deadline for adding classes or if the class will raise your course load above 17 hours.
- Get appropriate signatures (see list on previous page).
- Take the drop/add slip to the Student Advocacy Center.
- For College of Outreach and Innovation students, contact your advisor.

ADDITIONAL CREDIT PROGRAMS AND TESTING

You may receive credit for certain courses or activities not taken in the traditional manner.

Credit By Independent Study

You may receive credit by independent study in your major with the approval of your college's dean. Professors will assign a regular grade in a course on the basis of an examination, contact with you during a period of independent study, oral reports, and/or research papers.

You should take the initiative to propose a study or project to the dean and the faculty member before enrollment. Arrangements for periodic progress checks should be made within two weeks after the semester begins. You normally will not be allowed to take independent study of a course that is regularly offered. To comply with federal regulations, no more than 70% of an independent study course can be offered online. Students and faculty must document in their plan of study or syllabus how face to face meetings will take place between the instructor and the student. Normally, no more than 12 semester hours in independent study may be applied toward a degree. Faculty who agree to supervise an independent study must post the syllabus for the independent study in the online site for syllabi.

Syllabi for independent studies must note the number of credit hours the student will earn, as well as the workload requirements of the course. Faculty must consider the University's Assignment of Semester Credit Hours in determining course requirements for the number of credits awarded. This document is publicly available on the website at <https://www.oc.edu/uploads/images/AssignmentofSemesterCreditHours.pdf>.

Extracurricular Credit

A department may request one hour of credit for an activity in which academic courses are usually given at recognized institutions. Prerequisites may be established if desired.

The course must provide some instruction in the area being served and must require a total of no fewer than 60 hours of student participation. The professor certifies with the grade that you participated the required amount of time. The grade itself indicates the quality of participation. Hours well above the minimum may be given some consideration in establishing the grade. Because some activities will not start until after registration, you may enroll for the course after the stated time and the final grade will be the only one submitted.

Credit for Internships or Practicums

Students may have internship and/or practicum opportunities that allow them to make industry experience part of their educational plan by earning course credit. Internships and/or practicums should count toward degree requirements and be approved by the student's Chair in advance of starting the internship/ practicum. International students may utilize Curricular Practical Training (CPT) for such opportunities.

CREDIT BY EXAMINATION POLICIES

CLEP and Other Exams

If you have had sufficient experience, training, or study in a subject area, you may apply to take College Level Examination Program (CLEP) subject exams or CLEP general exams published by the College Entrance Examination Board in order to receive academic credit. CLEP exams are offered to entering freshmen during the summer orientation programs or by special arrangement on an individual basis with the Student Success Center. You also may take CLEP exams after the semester begins if you meet the written guidelines. See the listing at the end of the following guidelines for CLEP exams offered and courses for which credit may be obtained.

CLEP Guidelines

Any undergraduate student who has enrolled at Oklahoma Christian University or who has been accepted for admission by the university may receive credit by CLEP examination from OC. Additionally, prospective undergraduate students or students

enrolled at another institution may take CLEP tests at OC but must indicate which institution the test results should be sent.

Registration and payment for all CLEP exams must be completed through College Board. There is an additional non-refundable fee of \$30 for test administration that can be paid to OC prior to the day of the exam or paid electronically using the online form: <https://oklahomachristian.wufoo.com/forms/p1il0zld0ab0n1w/>

(If a student is taking the College Composition Modular that there is also a grading fee of \$25. This exam is only available to students seeking credit from OC.) Payments made at OC for this fee may be made in cash or by check. Charges may not be added to the student's school account. To register for the CLEP exam or to receive more information regarding the exams, please visit: <http://clep.collegeboard.org/register/exam>.

Only those who are enrolled at OC or who have been accepted for admission to the university may receive credit by examination. A minimum of 12 semester hours must be earned in coursework at OC before credit earned by examination will be recorded.

You may not attempt credit by examination for courses that you have audited or in which you are, or have been enrolled and in which you have attended any classes at OC or any other university. If you wish to take a CLEP exam for credit in a course in which you are currently enrolled, then you must drop the course within the first week of the semester.

You may attempt to receive credit by CLEP examination again after three full months. Except where specifically provided for by a program, credit by exam may not be given in a course sequentially lower in the department or a prerequisite to a course for which you have received credit.

You may receive up to 60 semester hours of credit by examination. The amount you may take by correspondence or extension will be reduced accordingly. Credit earned by proficiency examination does not count toward the resident requirement of 30 semester hours.

If you have taken and passed a course at an unaccredited institution and wish to validate that work through the procedures outlined in this policy, you may do so. This credit is considered equivalent to transfer credit and does not satisfy the requirement calling for 30 semester hours in residence or the requirement calling for one half of the major at OC.

CLEP TESTS OFFERED AND REQUIRED SCORES

You must pass CLEP examinations with a score determined by the university to receive course credit at OC. Credit received is recorded on your permanent record with a grade of "P" for passing. No CLEP credit is given for ENGL-2213: Perspectives in Literature.

SUBJECT EXAMINATION	OC REQUIRED SCORE	COURSE CODE	OC COURSE
American Government	63	POLS-2113	American Politics
Calculus	64	MATH-2114	Calculus I with Analytical Geometry
College Algebra	63	MATH-1223	Mathematical Functions and Modeling
College Mathematics	62	MATH-1163	Applied Mathematics
College Composition	50	ENGL-1113	English Composition I
College Composition Modular	55	ENGL-1113	English Composition I
General Biology	57	BIOL-1013	Principles of Biology I
General Chemistry	65	CHEM-1115 or CHEM-1313	General Chemistry I or General Chemistry for Engineers
History of the U.S. I	56	HIST-2213	History of the U.S. to 1877
History of the U.S. II	57	HIST-2223	History of the U.S. Since 1877
Humanities	56	FINE-2913	Perspectives in Fine Arts
Introduction to Psychology	59	PSYC-1113	General Psychology I
Introduction to Sociology	59	SOCI-1113	Introduction to Sociology
Pre-Calculus	61	MATH-1614	Pre-Calculus
Principles of Macroeconomics	62	ECON-2113	Macroeconomic Principles
Principles of Microeconomics	64	ECON-2213	Microeconomic Principles

Note: No CLEP tests will be accepted for upper-division business courses. College Composition Modular can only be taken at OC.

ADVANCED PLACEMENT EXAMINATIONS AND REQUIRED SCORES

AP COURSE	SCORE	COURSE CODE	OC COURSE
Art History	3	ARTS-2013	Survey of Visual Culture
Art/Studio/Drawing	3	ARTS-1113	Fundamentals of Drawing
Biology	3	BIOL-1013	Principles of Biology I
Biology	4	BIOL-1115	General Biology I
Computer Science A	3	CMSC-1113	Programming I
Computer Science B	4	CMSC-1113 & CMSC-1123	Programming I & II
Computer Science Principles	3	CMSC-1313	Software Engineering I - Introduction
Economics/Macro	3	ECON-2113	Macroeconomics
Economics/Micro	3	ECON-2213	Microeconomics
English Language/Composition	3	ENGL-1113	English Composition I
English Literature/Composition	3	ENGL-1113	English Composition I
European History	3	HIST-2823	World Civilization to 1500
French, Language	3	FRNC-1113 & FRNC-1213	Beginning French I & II
General Chemistry I	4	CHEM-1115	General Chemistry I
General Chemistry I & II	5	CHEM-1115 & CHEM-1215	General Chemistry I and General Chemistry II
German, Language	3	GERM-1113 & GERM-1213	Beginning German I & II
Government and Politics	3	POLS-2113	American Politics
Human Geography	3	GEOG-2113	Elements of Human Geography
Introduction to Chemistry	3	CHEM-1104	Introduction to Chemistry
Math/Calculus AB	3	MATH-2114	Calculus I with Analytical Geometry
Math/Calculus BC	4	MATH-2114 & MATH-2214	Calculus I with Analytical Geometry & Calculus II
Music/Listening/Literature	3	FINE-2913	Perspectives in Fine Arts
Music Theory	3	MUSC-1023	Fundamentals of Music Theory
Pre-Calculus	3	MATH-1614	Pre-Calculus Math
Psychology	3	PSYC-1113	General Psychology I
Physics I	3	PHYS-1114	College Physics I
Physics II	3	PHYS-1214	College Physics II
Physics/C Mechanics	3	PHYS-2514	Physics I
Physics/C E&M	3	PHYS-2614	Physics II
Spanish, Language	3	SPAN-1113 & SPAN-1213	Beginning Spanish I & II
Statistical Methods	3	MATH-2913	Statistical Methods
U.S. History or History of the U.S. Since 1877	3	HIST-2213 or HIST-2223	History of the U.S. to 1877 or History of the U.S. Since 1877
U.S. History and History of the U.S. Since 1877	4	HIST-2213 & HIST-2223	History of the U.S. to 1877 and History of the U.S. Since 1877
World History	3	HIST-2823	World Civilization to 1500

INTERNATIONAL BACCALAUREATE PROGRAM

Credit may be awarded to students who have taken higher-level courses in the International Baccalaureate Program and who have scored at least a "4" (on a 7-point scale) on the higher-level course examination. Such credit generally is awarded on a course-by-course basis as recommended by the appropriate OC department. The following higher-level International Baccalaureate courses have been approved for credit without individual department review. International Baccalaureate transcripts should be submitted to the Office of the Registrar.

HIGHER LEVEL COURSE	EQUIVALENT OC COURSE	MINIMUM SCORE	SEMESTER HOURS
Biology	BIOL-1013: Principles of Biology I	4	3
Chemistry	CHEM-1115: General Chemistry I	4	5
Chemistry I & II	CHEM-1115: General Chemistry I & CHEM-1215: General Chemistry II	7	10
Economics	ECON-2113: Macroeconomics	4	3
Higher Mathematics	MATH-2114: Calculus I with Analytical Geometry	4	4
History - America	HIST-2213: History of the U.S. to 1877	4	3
Introduction to Chemistry	CHEM-1114: Introduction to Chemistry	4	4
Language A: English	ENGL-1113: English Composition I	4	3
Music	MUSC-2013: Music Appreciation	4	3
Physics	PHYS-1114: College Physics	4	4
Social Anthropology	SOCI-1113: Introduction to Sociology	4	3

You can request transcripts through your high school International Baccalaureate coordinator for the first year after high school graduation. Thereafter, transcripts can be requested from the International Baccalaureate Program, North America, 475 Riverside Drive, Suite 1600, New York, NY 10115; (212) 696-4464. Website: www.ibo.org.

You should be aware that AP examinations, CLEP examinations, International Baccalaureate examinations, and college courses taken prior to or after enrolling at OC may be duplicative. In these cases, the university will award credit for only one specific course.

DEPARTMENTALLY-PREPARED CHALLENGE EXAMS

Departmentally-prepared exams are extensive examinations over specific subjects or courses. Approval for the examination, the type of examination to be used, or for other work to be performed will be left to the department. Application forms are available in the Office of the Registrar. The charge for credit under this policy will be a \$20 fee for the examination, whether passed or failed, and \$10 per semester hour of credit fee to record it on the transcript if it is passed. In case of validation of unaccredited work, the latter charge will not be made. If you make a grade of "C" or above on a departmentally-prepared examination, the course will be recorded with credit given and a grade of "P*" for passing. You may not attempt an examination in the same course more than one time.

PORTFOLIO-BASED ASSESSMENT FOR PRIOR LEARNING

You may receive credit for assessment of your adult prior learning obtained outside of formal learning contexts, including but not limited to work experience, professional training, certifications, and licenses, among others. Credit for prior learning (CPL) through portfolio-based assessment can be obtained by the submission of portfolios that demonstrate and document college-level, prior learning and show that your prior learning satisfies the objectives of specific courses required in your degree program. To develop portfolios, you may take the course Professional Development Theory and Practice (LBAR-3003). In this course, you will earn three credit hours toward elective requirements while you develop up to three portfolios. Credit is guaranteed upon passing the course, but the opportunity to earn up to nine additional credit hours is available upon submitting three portfolios to be assessed for their credentialing merit. You may submit additional portfolios beyond those the course requires, but no more than 30 hours of college credit will be awarded through portfolio-based prior learning assessment.

Should you be eligible for credit for prior learning but not wish to take LBAR-3003 for credit, you may be enrolled in a portfolio writing workshop. This option does not provide instructor guidance, but you are provided with the rubrics, tools, and instructions needed to compose portfolios independently. This option may be advantageous to students who only wish to challenge one or two courses and/or do not need to satisfy additional elective credits to complete their degree.

A minimum of 12 semester hours must be earned in coursework at OC before credit awarded through portfolio-based CPL will be recorded.

RETROACTIVE CREDIT

You may begin university study at the level appropriate to your background in foreign language or as part of a dual undergraduate/graduate degree program. Upon completion of foreign language course numbers 1213, 2113, or 2123 with a grade of "B" or better, or upon passing a departmentally-prepared exam, you may apply for retroactive credit for all previous courses in the foreign language sequence. Students completing coursework as part of a dual undergraduate/graduate degree program may complete the graduate (5000-level) version of a course and apply for retroactive credit for the undergraduate (3000 or 4000-level) version of the same course, provided that you earn a grade of "B" or better in the graduate course. The application for such credit must be approved by the professor and the department chair. You must then pay \$10 per semester hour in the Registrar's Office to have the retroactive credit recorded.

AIR FORCE ROTC CREDIT

AFROTC is a nationwide program that allows students to pursue commissions (become officers) in the United States Air Force (USAF) while simultaneously attending college. AFROTC classes are held on college campuses throughout the United States and Puerto Rico; students can register through normal course registration processes. AFROTC consists of four years of Aerospace Studies classes (Foundations of the USAF, Evolution of USAF and Space Power, Air Force Leadership Studies, and National Security Affairs/Preparation for Active Duty), and a

corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies). College students enrolled in the AFROTC program (known as "cadets") who successfully complete both AFROTC training and college degree requirements will graduate and simultaneously be commissioned as Second Lieutenants in the Active Duty Air Force. The AFROTC program is currently offered at the University of Oklahoma, but they have a crosstown agreement that allows our students to enroll in AFROTC and become full-fledged cadet participants. For more information on the AFROTC program, please review <http://www.ou.edu/rotc/air-force.html>.

ARMY ROTC CREDIT

Two-, three-, and four-year programs are available to you through a cooperative agreement between Oklahoma Christian and the University of Central Oklahoma (UCO). This allows you to commute to UCO and attend Army ROTC classes while continuing to pursue your degree at OC. Through the Army Reserve Officers' Training Corps Program (ROTC), the Department of Military Science offers two programs. After completion of the degree and the ROTC program, you will be commissioned as an officer in the United States Army, the Army Reserves, or the Army National Guard. For more information, contact UCO.

STUDENTS AND VA BENEFITS

In keeping with minimum standards set by the state, these following guidelines will be followed in reporting to the Veterans Administration regional offices the attendance and academic progress of those who receive VAbenefits:

1. If you drop out of school, OC will report the last date attended to assure that payments are terminated no later than the date when you stop attending a course
2. OC also will report when you fail to maintain satisfactory progress. You will be placed on academic alert and should make a 2.0 GPA at the end of that semester or raise your cumulative GPA to the level of good standing required for your classification.

If you have questions about your VA benefits, contact the Registrar's Office at 405-425-5206.

CORE CURRICULUM

Oklahoma Christian's aim is to "take every thought captive to make it obedient to Christ" (II Cor. 10:5b). This means the faculty and the students are involved in an ongoing project to explore and promote the Christian worldview. In every discipline, Christ - the incarnate Word of God - and the Bible - the written Word of God - is the foundation of our intellectual growth and moral development. This knowledge of the Word of God is essential equipment for Christian scholars.

Secular education often is satisfied to create doubt and leave it unresolved. Fundamentalist education often is satisfied to retreat from doubt and deny that it exists. Christian education confronts doubt and seeks to overcome it to produce faith.

Therefore, the Oklahoma Christian community is committed to creating and communicating a Christian analysis of every discipline, believing that in doing so, Christian students develop a bold faith and all students are exposed to a wider array of thought than they would encounter in most secular universities. No one is required to hold any position on scriptures or to agree with any application of them, but all are required to learn the information and skills necessary to meet the stated objectives. Professors seek to be open to and understanding of the views of students while affirming their own position. Faith is, therefore, the central concept in the core curriculum model. All of the specific objectives listed in each category are built on the central concept.

CORE CURRICULUM COURSES – 42 HOURS

Category	Hours
Bible	15
English Comp I	3
English Comp II	3
Oral Communication	3
Math	3
Political Science	3
American History	3
Science (no lab required)	3
Humanities	3
Behavioral/Social Science	3

9 HOURS REQUIRED BIBLE

BIBL-1013	Israel and God's Kingdom (OT Survey)
BIBL-1033	Jesus, the Church, and God's Kingdom (NT Survey)
BIBL-2103	The Christian Life in God's Kingdom (NT Ethics)

6 HOURS BIBLE ELECTIVES

Any BIBL or GMIN

9 HOURS COMMUNICATION

COMM-1213	Oral Communication
ENGL-1113	English Composition I
ENGL-1213	English Composition II*

*may sub with CENG-4732, ELEC-4732, MECH-4732

3 HOURS MATHEMATICS

Any MATH except MATH-2123

3 HOURS POLITICAL SCIENCE

POLS-2113	American Politics
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3 HOURS AMERICAN HISTORY

HIST-2213	History of the U.S. to 1877 OR
HIST-2223	History of the U.S. Since 1877

3 HOURS HUMANITIES CHOSEN FROM

ABRD-2103	Cross-Cultural Perspectives
ABRD-2903	Aesthetics
ABRD-2913	Studies in European Civilization
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography
ENGL-2213	Perspectives in Literature
GMIN-3513	World Religions
HIST-2823	World Civilization to 1500
HIST-2833	World Civilization since 1500
MATH-2123	History of Mathematics
MUSC-2013	Music Appreciation
MUSC-2023	Jazz Appreciation
MUSC-3213	Perspectives in World Music

3 HOURS SCIENCE

Any BIOL, CHEM, GNSC, PHYS

3 HOURS BEHAVIORAL AND SOCIAL SCIENCE CHOSEN FROM

ECON-2113	Macroeconomics
GEOG-2213	World Regional Geography
POLS-2213	Introduction to Global Politics
POLS-2413	Comparative Politics
PSYC-1113	General Psychology I
SOCI-1113	Introduction to Sociology

Students with Associate or Baccalaureate Degrees from Another Institution

If you transfer to OC with an associate degree designed to provide the core curriculum background for a baccalaureate degree, OC will consider the hours taken before coming to OC when determining your core curriculum requirements. The associate degree program must include at least 27 hours in courses typically required for the core curriculum with at least one course in the following six categories: communication, math, American citizenship, behavioral/social science, humanities, and science.

If you have fulfilled at least five of these categories prior to coming to OC, you will be able to complete courses on campus to fulfill up to one deficient area in the six categories. You also will be required to complete the following at OC: 9 hours of Bible. Those completing a second baccalaureate degree at OC will be covered by the same policy. You may transfer all approved courses from an accredited community college. A maximum of 65 hours from a community college will apply toward a degree.

Note: You must satisfy the specific course provisions for the B.S.E. and other programs requiring specific courses for the core curriculum.

Requirements for All Baccalaureate Degrees

After consulting with an academic advisor, it is ultimately your responsibility to choose and implement your academic program and to see that all specific requirements for that program and all core curriculum requirements for graduation from the university have been met in an acceptable and timely manner. Requirements are as follows:

- You must have satisfied all entrance requirements.
- You must complete at least 122 semester hours.

First-Time Transfer Students to OC

Transfer students must take the following number of hours in Bible at OC:

Transfer Hours	Required OC Bible Hours
1 to 29	15* (all required Bible courses)
30 to 59	12* (one elective waived)
60 to 89	9* (BIBL-1013, BIBL-1023, and BIBL-2203)
90 or more	6* (BIBL-1013 or BIBL-1023, and BIBL-2203)

Or reach a total of 15 hours, including transfer hours.

*The number of Bible hours required for transfer students is determined at the time of your initial enrollment at OC. Subsequent transfer hours do not affect the number of hours required.

SECOND BACCALAUREATE DEGREES AND DOUBLE MAJORS

For a second baccalaureate degree or a double major, you must first receive written approval from the dean(s) of the respective college(s) and then you must complete the requirements for the specific major with a minimum of 18 additional hours unique to the second degree or major beyond the first degree or major. A minimum of 140 total semester hours will need to be completed by the end of the second degree or major. Students not receiving their first bachelor's degree from Oklahoma Christian University will need to also complete 6 hours of Bible, to include BIBL-4533: Senior Capstone.

If the second baccalaureate degree or second major would normally require a minor, each degree or major shall count as the minor for the other degree or major.

REQUIREMENTS FOR GRADUATION

Requirements for Graduation with an Associate Degree

- You must complete a total of 60 semester hours, with a minimum of 42 hours in the core and 18 hours electives.
- Courses may satisfy requirements in the core or the electives, but cannot count toward both (a process known as "double dipping").
- You must complete the core curriculum requirements as listed in the

catalog.

- You must have a total GPA in all courses of not less than 2.0.
- You may not count toward graduation more than seven semester hours with a grade of "D". If you have more than seven hours of "D" grades in courses required for graduation, you must retake the specific course or courses to replace those "D" grades.
- You must complete at least 15 semester hours at OC and be in attendance during the semester of graduation.

Requirements for Graduation with a Baccalaureate Degree

- You must complete a minimum of 30 semester hours in a major and a minimum of 18 hours in a minor, if required. At least one-half, or 22 hours (whichever is smaller), of the work in the major or major/minor program must be completed at OC. In majors that contain a specialization, at least three-fourths of the work required for that specialization must be completed at OC.
- Courses may satisfy requirements in the core and the major and/or the core and the minor (a process known as "double-dipping"). A minor requires at least 18 hours of additional unduplicated courses. If there are no common courses in the requirements for a major and the requirements for a minor, the student may major and minor in the areas. When there are courses required in both the major and the minor, the student may not earn a major and minor in those areas.
- You must complete the core curriculum requirements as listed in the catalog.
- You must have at least 10 semester hours of courses numbered 3000 or above in your major field and a total of not less than 30 semester hours overall in such courses.
- You must have a total GPA on all courses of not less than 2.0 and the same overall average on all work done in the major field.
- You may not count toward graduation more than 15 semester hours with a grade of "D." If you have more than 15 hours of "D" grades in courses required for graduation, you must retake the specific course or courses to replace those "D" grades.
- You must complete at least 30 semester hours at OC (at least 15 of which must be in the senior year), be a full-time student for at least one semester, and be in attendance during the semester of graduation.

You normally will follow the requirements of the catalog in effect at the time of admission to the university. No catalog will be binding for more than seven years. Therefore, at the point of graduation, you must meet the requirements of a catalog that has been in effect no more than seven years. Any exceptions must be approved by the dean of the student's college and the Registrar.

Post-Enrollment Transfer Credit

Students who are enrolled at OC may receive credit for courses taken at another institution, subject to the following restriction:

- Obtain written approval on a Transfer Course Approval Form before registering for the courses at another institution.
- Approval for courses within the major must come from the Program Chair for that major.
- Approval for core curriculum courses must come from the Registrar.

Limitation of Transfer Credit

Once a bachelor's degree seeking student begins at OC, they may not transfer in more than 15 hours of credit to count toward graduation, of which no more than six upper-division hours of their major can be transferred back to OC. Transfer credit in the major must be approved by the student's major programs, as explained above. Similarly, once an associate's degree seeking student begins at OC, they may not transfer in more than seven hours of credit to count toward graduation.

Technical or vocational credits are not eligible for transfer and may not, therefore, be used to satisfy degree requirements.

Current OC students must have transfer credit approved prior to enrolling in a class away from the OC campus. A Transfer Course Approval Form is available on myOC and in the Student Advocacy Center.

A course may not be taken at another college or university to replace a grade for any course that has been taken at OC except in extraordinary circumstances.

Any student pursuing the baccalaureate degree must complete all of the graduation requirements with a minimum of 122 hours prior to participating in commencement. Students pursuing the associate degree must complete all of the graduation requirements with a minimum of 60 hours prior to participating in commencement.

Commencement will be held on December 12, 2025 and May 1, 2026.

Associate of Science Degree

To receive an Associate of Science degree from OC, you must complete the following:

1. Meet the core curriculum requirements of 36 specific hours; and
2. Meet the requirements of 24 additional elective hours, for a total of 60 hours.

Bachelor of Arts Degree

To receive a Bachelor of Arts degree from OC, you must complete the following:

1. Meet the core curriculum requirements;
2. Meet the requirements for a major in one of the departments offering the Bachelor of Arts degree; and
3. In addition to the other core curriculum requirements, complete two courses (minimum total of six hours) in the same foreign language. See page 21 for retroactive credit for foreign languages.

Bachelor of Business Administration Degree

To receive a Bachelor of Business Administration degree from OC, you must complete the following:

1. Meet the core curriculum requirements; and
2. Meet the requirements for a major offering a Bachelor of Business Administration degree.

Bachelor of Fine Arts Degree

To receive a Bachelor of Fine Arts degree from OC, you must complete the following:

1. Meet the core curriculum requirements; and
2. Meet the requirements for a major offering a Bachelor of Fine Arts degree.

Bachelor of Music Education Degree

To receive a Bachelor of Music Education degree from OC, you must complete the following:

1. Meet the core curriculum requirements;
2. Meet the music department's requirements in music and music education; and
3. Meet the requirements for teacher certification.

Specific programs may have additional transfer restrictions.

Bachelor of Science Degree

To receive a Bachelor of Science degree from OC, you must complete the following:

1. Meet the core curriculum requirements; and
2. Meet the requirements for a major in one of the departments offering the Bachelor of Science degree.

Bachelor of Science in Computer Engineering Degree

To receive a Bachelor of Science in Computer Engineering degree from OC, you must complete the following:

1. Meet the core curriculum requirements; and
2. Meet the requirements for the major in computer engineering.

Bachelor of Science in Education Degree

To receive a Bachelor of Science in Education degree from OC, you must complete the following:

1. Meet the core curriculum requirements;
2. Meet the requirements for education in either elementary education, early childhood, or some field of secondary education; and
3. Meet the requirements for teacher certification.

Bachelor of Science in Electrical Engineering Degree

To receive a Bachelor of Science in Electrical Engineering degree from OC, you must complete the following:

1. Meet the core curriculum requirements; and
2. Meet the requirements for the major in electrical engineering.

Bachelor of Science in Mechanical Engineering Degree

To receive a Bachelor of Science in Mechanical Engineering degree from OC, you must complete the following:

1. Meet the core curriculum requirements; and
2. Meet the requirements for the major in mechanical engineering.

Bachelor of Science in Nursing Degree

To receive a Bachelor of Science in Nursing degree from OC, you must complete the following:

1. Meet the core curriculum requirements; and
2. Meet the requirements for the major in nursing.

Undergraduate and Graduate Dual Degrees

To receive an undergraduate and graduate dual degree from OC, you must complete the following:

1. Meet the core curriculum requirements;
2. Meet the requirements for the undergraduate major; and
3. Meet the requirements for the graduate major.

STUDENTS WITH DISABILITIES

OC seeks to be learner-friendly for students with disabilities. If you have diagnosed disabilities, you should direct your inquiries to Michael Ferguson at 405-425-1876. Disability documentation must be provided from an appropriately qualified professional (i.e., physician, psychiatrist, or psychologist). Each semester, you must meet with Mr. Ferguson to establish a specific accommodation plan. OC seeks to be helpful and cooperative. Nevertheless, the responsibility for learning rests with you and you must take the initiative to arrange for the accommodations. For specific policies, see the ADA Handbook, which is available in the Office of Student Life.

STUDENT SUCCESS CENTER

Oklahoma Christian University's Student Success Center partners with academic programs to promote personal and academic responsibility as students navigate through their university experience toward graduation. Features include the peer mentoring program, academic coaching, academic recovery, accessibility resources, learning assistants, supplemental instruction, tutors and a testing center.

Students can book an appointment with a tutor by going to:

<https://tutorscheduling.oc.edu/>

Ascend Scholars Program

The Ascend Scholars Program will expand access for OC students who need additional support during the transition to college.

Ascend provides robust programming for any admitted student who meets the following requirements:

- 18 or below on ACT
- Enrollment in ENGL-0120 or SDEV-0103
- Test optional admission

If a student meets these requirements, they will be notified by Student Success after admission and commitment to OC. Students participating in the Ascend program will be enrolled in a two-semester course: UNIV-1102: Communication and Success in College 1 (Fall) and UNIV-1201: Communication and Success in College 2 (Spring). These courses are designed to provide students with additional resources on time management and study skills, plagiarism, writing and presentation skills, and choosing a major.

Ascend scholars will also be paired with a peer mentor they meet with regularly throughout the semester. Peer mentors are current OC students that assist students as they navigate their first year of college.

Additional services are provided through the Student Success Office including: tutoring, advising, and access to Academic Life Coaching.

STUDENT DEVELOPMENT COURSES

Students with low ACT scores will generally be placed in special courses to help them begin where they need to start in writing and math. These courses are described below.

For the College of Outreach and Innovation, adult students may alternatively have the option to complete introductory course modules and/or participate in co-requisite tutoring to foster success in general education courses.

Writing

OC is committed to helping you meet the fundamental objective of effective written communication. The university requires students with an English ACT of 18 or lower or not submitted will be enrolled in ENGL-0120: Metacognitive Writing Strategies while concurrently enrolling in ENGL-1113: English Composition I. Students may also provide a CLT score of at least 57, SAT of 980, Accuplacer of 245, or IB of 4 to be exempt from this requirement. The metacognitive writing strategies class allows you to master basic grammar skills and gain confidence needed to succeed in the core curriculum's communication sequence and other university-level courses.

Mathematics

OC requires that you have proficiency in and understanding of mathematics. You must complete a mathematics requirement. The required course varies according to the specialized needs of the major curriculum. Students in business and sciences programs must have MATH-1223: Mathematical Functions and Modeling. Most others must complete MATH-1163: Applied Mathematics or MATH-1173: Quantitative Reasoning.

To assist students who are not adequately prepared for the required math course, OC offers a developmental math course. Intermediate Algebra (SDEV-0103) is required for those with an ACT math subscore of 22 or lower (if they need to take MATH-1223: Mathematical Functions and Modeling for their major) or an ACT math subscore of 18 or lower (if they need to take MATH-1163: Applied Mathematics or MATH-1173: Quantitative Reasoning). Intermediate Algebra reviews high school algebra, including polynomials, equation solving, and graphing. This course is graded with a grade of "P" (Passing) or a grade of "NP" (Not Passing). This course does not satisfy the core curriculum mathematics requirement.

COUNCIL OF CHRISTIAN COLLEGES AND UNIVERSITIES PROGRAMS

Through OC's affiliation with the Council of Christian Colleges and Universities (CCCCU), you may apply to participate in a number of outstanding special study programs, described below. Up to four OC students per semester may apply to participate in CCCCU programs. If more than four students express interest, the International Programs Committee will decide which students may apply for a CCCCU program in a given semester.

For more information, contact the Office of International Programs. Students who participate in a CCCCU study abroad program should plan their returning semester's schedule prior to leaving the country, or should make plans to access the OC online schedule from abroad. Please note: Oklahoma Christian University institutional scholarships and institutional grants you receive cannot be applied to tuition charges, etc. related to the CCCCU programs. Students may apply for a number of outstanding special study programs. For additional information, go to <https://www.bestsemester.com>.

STUDY ABROAD PROGRAMS

The mission of OC's Office of International Programs is to deepen and broaden the intellectual, social, spiritual, and aesthetic awareness of students and faculty as they study, travel, and serve in other cultures. Eligible students will have completed a minimum of one semester at OC with a 2.0 GPA. Students should enroll in up to six hours in a summer or winter study abroad program and a minimum of 12 credit hours throughout a semester study abroad program. Please refer to the chart on the following page for a list of study abroad courses approved for the core curriculum. In order to meet the above mission, OC offers the following programs:

Europe

OC's European Studies Programs are great opportunities to experience much of the history and culture that Europe has to offer. Students receive college credit as they study, travel, and serve overseas in one of the oldest and most important cultures in the world. OC is home at Das Millicanhaus, the university's living learning facility in Vienna, Austria. The program may also include academic field trips to places such as London, Poland, and Italy. Best of all, the European Studies Programs are offered in the fall or spring semester and during the summer and winter term. Students can choose whatever fits best for their schedules, but are required to take ABRD-2103, GERM-1113, and a 3-hour Bible course in the fall and spring semesters.

Asia

Programs in Asia provide once in a lifetime adventures as students travel to several countries across the Pacific Rim. Short- and long-term offerings may include China, Japan, or South Korea. Asia studies is only offered in the summer.

Latin America

HonduraServe is a unique opportunity for students to spend two weeks in May in a practicum-type experience. Open to all majors, this trip is especially geared towards education, nursing, science, Spanish, and TEFL majors.

STUDY AND TRAVEL COURSES

At OC, you have opportunities to study a specific discipline in a unique setting. Some of the courses involve international study while others will take place in the U.S. These programs range from one to six weeks. Some occur every year while others are one-time offerings. Past trips have included Eagles on Wall Street, the Canadian Shakespeare trip, Spring Break in Costa Rica, and Civil Rights tour. Go to www.oc.edu/studyabroad to see current and future offerings.

STUDY ABROAD COURSES IN CORE CURRICULUM

ABRD-2103	
Cross Cultural Perspectives	Humanities
ABRD-2903	
Aesthetics	Humanities
ABRD-2913	
Studies in European Civilization	Humanities
COMM-1213	
Oral Communication	Oral Communication
ENGL-2213	
Perspectives in Literature	Humanities
GMIN-3053	
Christianity and Culture	Bible Elective
MATH-2123	
History of Mathematics	Humanities

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Vocational Ministry (second major only)		Criminal Justice (B.S.)	
College of Bible Minors.....	34	History (B.A.)	
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Accounting (B.B.A.)		Social Studies Education (B.S.E.)	
Accounting with Computer Science (B.S.)		English (B.A.)	
Accounting/Finance (B.B.A.)		English Education (B.S.E.)	
Business Administration (B.B.A.)		English/Teaching English as a Foreign Language (B.A.)	
Finance (B.B.A.)		English/Writing (B.A.)	
Marketing Management (B.B.A.)		Vocational Spanish (second major only) Music	
Digital Marketing emphasis		(B.A.)	
Marketing Management emphasis		Music Education with Instrument emphasis (B.M.E.)	
Professional Selling emphasis		Music Education with Vocal emphasis (B.M.E.) Digital	
Sports Marketing emphasis		Design (B.F.A.)	
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Computer Science with Cybersecurity (B.S.)		Biology (B.S.)	
Computer Science with Gaming and Animation (B.S.)		Biology, Pre-Medicine (B.S.)	
Mathematics (B.S.)		Early Childhood Education (B.S.E.)	
Mathematics/Computer Science (B.S.)		Elementary Education (B.S.E.)	
Mathematics Education (B.S.E.)		Exercise Science (B.S.)	
School of Engineering.....	60	Family Science (B.S.)	
Computer Engineering (B.S.C.E.)		Family Science/Human Development (B.S.)	
Electrical Engineering (B.S.E.E.)		Medical Laboratory Science (B.S.)	
Electrical Engineering with Software emphasis (B.S.E.E.)		Nursing (B.S.N.)	
Mechanical Engineering (B.S.M.E.)		Psychology (B.A., B.S.)	
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THE HONORS PROGRAM

Oklahoma Christian University recognizes that students arrive on campus with a wide range of academic skills and differing levels of intellectual curiosity.

To challenge students who are highly motivated to excel academically, the faculty developed the Honors Program, a unique curriculum by which students achieve the objectives of the general education core. The program's curriculum replaces most of the core curriculum. OC graduates of the Honors Program will:

1. Read critically and well, inside and outside of their major.
2. Do effective research.
3. Communicate with confidence in formal and informal settings.
4. Connect their academic and intellectual life with their faith.
5. Demonstrate mastery of foundational knowledge of the history, art, and culture of Western Civilization.
6. Demonstrate understanding of the Bible in relation to other ancient literature.
7. Demonstrate understanding of the relations between Christian faith and science.
8. Demonstrate understanding of the Christian faith in relation to other worldviews.
9. Demonstrate awareness of and sensitivity to the complexities of race, class, and gender in our society

Admission to the program is based on a high school GPA of 3.5 or higher, a minimum ACT of 28 or SAT of 1310, evidence of writing skills, and an interview.

Professors of Honors courses encourage a high level of participation, require much independent research, and mentor students to write and speak effectively as they develop the ability to think analytically and critically.

Seminars in the Honors Program are discussion-based, cross-disciplinary by design, and crafted to help students develop a broad understanding of intellectual and cultural developments and to encourage focused research on specific issues related to a Christian worldview.

The advantages of the Honors Program include small classes, challenges to solve problems, and interaction with other serious and thoughtful students. Students interact readily with their professors in Honors courses. All the professors cooperate to help you understand your abilities and unlock your potential. The program provides intellectual growth, close contact with equally motivated peers, significant interaction with professors, and an enlarged view of the world. Honors students receive a one-time \$1,000 travel stipend to be used exclusively for OC-sponsored Study Abroad programs of six weeks or longer. This stipend is increased to \$3,000 if a student chooses an OC-sponsored European Study Abroad program of six weeks or longer.

Students in the Honors Program fill important roles of leadership throughout the campus in all kinds of organizations. They are often leaders within their majors as well.

The Honors House at Davisson Hall offers a men's wing and a women's wing for development of a living-learning community that enhances the curriculum with peer mentoring by Honors staff.

To graduate as an Honors Fellow, students must complete the OC Honors Program with a cumulative GPA of 3.4 or higher. Students must maintain a GPA of 3.00 to keep their standing in the Honors program.

ASSOCIATE OF SCIENCE DEGREE

60 HOURS

Through the Associate of Science (A.S.) degree, OC offers lower division preparation for almost all bachelor degree programs. The A.S. degree provides the courses of study equivalent to those offered in the freshman and sophomore (lower division) of OC's four-year programs.

The A.S. degree requirements consist of general education requirements and electives to prepare for a bachelor degree. Academic advisors may work with students who are planning to pursue a bachelor degree in order to ensure that prerequisites are met through the A.S. degree plan of study.

The Associate of Science degree requires 60 total credit hours, which includes 42 hours of general education courses and 18 hours of electives. The program is limited to 1000 and 2000 level courses unless approved by the signature of the advisor and Registrar.

9 HOURS REQUIRED BIBLE

BIBL-1013	Israel and God's Kingdom (OT Survey)
BIBL-1033	Jesus, the Church and God's Kingdom (NT Survey)
BIBL-2103	The Christian Life in God's Kingdom (NT Ethics)

6 HOURS BIBLE ELECTIVES

Any BIBL or GMIN

9 HOURS COMMUNICATION

COMM-1213	Oral Communication
ENGL-1113	English Composition I
ENGL-1213	English Composition II

3 HOURS MATHEMATICS

Appropriate to demonstrate ability or future major (except MATH-2123)

3 HOURS POLITICAL SCIENCE

POLS-2113	American Politics
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3 HOURS AMERICAN HISTORY

HIST-2213	History of the U.S. to 1877
HIST-2223	History of the U.S. Since 1877

3 HOURS HUMANITIES CHOSEN FROM

ABRD-2903	Aesthetics
ABRD-2913	Studies in European Civilization
ABRD-2103	Cross Cultural Perspectives
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
ENGL-2213	Perspectives in Literature
GMIN-3513	World Religions
HIST-2823	World Civilization to 1500
HIST-2833	World Civilization since 1500
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-2023	Jazz Appreciation
MUSC-3213	Perspectives in World Music

3 HOURS SCIENCE

Chosen from BIOL, CHEM, GNCS, PHYS

3 HOURS BEHAVIORAL SCIENCE CHOSEN FROM

ECON-2113	Macroeconomics
GEOG-2213	World Regional Geography
POLS-2213	Introduction to Global Politics
POLS-2413	Comparative Politics
PSYC-1113	General Psychology I
SOCI-1113	Introduction to Sociology

18 HOURS ADDITIONAL ELECTIVES

COLLEGE OF BIBLE

The Bible and Bible-related subjects occupy the central place in the university curriculum. A complete education includes a study of spiritual matters. Because the Bible is the only book in which God reveals Himself to us, it is the book that sets forth in supreme fashion how people are to live in relation to Him and others.

Through the College of Bible and various spiritual activities, the University seeks to develop in individuals a desire for truth and to guide them in the path that leads to a discovery of truth. The University faculty seeks to develop in students a strong commitment to Jesus Christ and, through such commitment, to prepare them for service in the home, church, and community.

Courses present the Bible as the inspired word of God. Related courses deal with introductory and background materials in order that the message of the Bible may be better understood. Biblical Greek and Hebrew are taught so that those who so desire may study the Bible in the languages in which it was first written. Courses dealing with the practical side of Christianity are offered so the student may translate theory.

AREAS OF STUDY

Bible (BIBL)
General Ministry (GMIN)
Greek (GREK)
Hebrew (HBRW)

DEGREES OFFERED

B.A. Degree in Bible and Ministry

SECOND MAJOR ONLY

Missions
Vocational Ministry

MINORS

General Bible
Advanced Biblical Studies

FACULTY

Jim Baird, D.Phil., Distinguished Professor of Bible and Philosophy
John Harrison, Ph.D., Professor of New Testament and Ministry
Ethan Laster, Ph.D. Candidate, Assistant Professor of Bible
Grant Testut, Ph.D., Associate Professor of Bible

DEAN

Jeremie Beller, Ph.D., Dean, College of Bible

LOCATION

Williams Branch Center for Biblical Studies

B.A. DEGREE IN BIBLE AND MINISTRY

60 HOURS - PLUS 6 ADDITIONAL HOURS IN LANGUAGES

This is a basic program for those preparing for religious service.

An OC graduate with a Bachelor of Arts degree in Bible will:

1. Organize Biblical content chronologically and thematically.
2. Exegete (analyze) biblical texts in a contextually informed manner.
3. Organize and present Biblical material in a contemporary and relevant manner.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

27 HOURS BIBLE AND MINISTRY

BIBL-2323 Introduction to Old Testament
BIBL-2333 Introduction to New Testament
BIBL-3013 Principles of Biblical Interpretation
GMIN-2013 Introduction to Christian Ministry
GMIN-3063 Evangelism and Discipleship
GMIN-3823 Counseling and Pastoral Care
GMIN-3913 Homiletics I
GMIN-4753 Seminar in Christian Ministry
GMIN-4953 Bible Ministry Practicum

9 HOURS PRACTICAL MINISTRY

15 HOURS OF TEXTUAL ELECTIVES

9 HOURS THEOLOGY AND HISTORY

GMIN-4803 Introduction to Theology
3 hours any church history elective
3 hours any theology elective

6 HOURS BIBLICAL LANGUAGES

A student must take six hours of Greek or six hours of Hebrew in addition to the above requirements for the B.A. degree in Bible.

GREK-1113 Elementary Greek I
GREK-1213 Elementary Greek II
HBRW-1113 Elementary Hebrew I
HBRW-1213 Elementary Hebrew II (may also count as Textual)

MISSIONS - 33 HOURS

TAKEN ONLY AS A SECOND MAJOR

This second major in Missions provides an acquaintance with the biblical text and the necessary auxiliary studies to allow special preparation for mission work.

An OC graduate with any degree and a second major in Missions will:

1. Communicate biblical truth effectively to people from cultural backgrounds different from their own.
2. Identify cultural similarities and differences and the impact these have on service to others.
3. Explain how New Testament Christianity functions in different cultural contexts through gaining experience in campaigns, mission internships, and, in some cases, overseas study opportunities.
4. Articulate/explain the role of the church in God's plan for salvation.

9 HOURS REQUIRED

GMIN-3063 Evangelism and Discipleship

GMIN-3513 World Religions

GMIN-3613 Cultural Anthropology

3 HOURS CHOSEN FROM

GMIN-3213 Gospel, Church, and Cultures

GMIN-3313 Cross Cultural Ministry

6 HOURS ELECTIVES CHOSEN FROM

BIBL-3043 Scripture and Mission of God

GMIN-3033 Mission Preparation

GMIN-3133 Women in Missions

GMIN-3163 Urban Ministry

GMIN-3673 New Religious Movements

GMIN-4113 The Local Church and Missions

GMIN-4633 Intercultural Communication I

GMIN-4753 Social Entrepreneurship

GMIN-4813 Missions Experience

15 HOURS

Any course offered in the College of Bible not previously taken.

VOCATIONAL MINISTRY - 33 HOURS TAKEN ONLY AS A SECOND MAJOR

This second major is designed specifically for people planning careers in non-religious fields such as teaching, engineering, medicine, law, business, sciences, communication, or fine arts, but who desire a deeper knowledge of God's word and ministry in order to strengthen the cause of Christ wherever they live and work.

An OC graduate with any degree and a second major in Vocational Ministry will:

1. Demonstrate a broader understanding of the Scriptures.
2. Demonstrate methodologies and critical thinking skills designed to improve ministries and solve problems in the field
3. Choose, practice, and enhance his or her profession from a Kingdom perspective.

33 HOURS FROM THE COLLEGE OF BIBLE

Any course offered in the College of Bible may count toward this major regardless of prefix.

15 HOURS MINIMUM OF TEXTUAL COURSES

15 HOURS MINIMUM UPPER-DIVISION COURSES

Some courses may meet both requirements (textual and upper-division), but do not count as double credit hours.
Core curriculum courses in Bible may be counted in these totals.

The following courses are recommended, but not required:

- GMIN-3063 Evangelism and Discipleship
- GMIN-3123 Mission Preparation
- GMIN-3433 Counseling and Pastoral Care
- GMIN-3913 Homiletics I

COLLEGE OF BIBLE MINORS AND CERTIFICATES

MINORS

GENERAL BIBLE MINOR - 21 HOURS

Any BIBL, GMIN, GREK, HBRW course offered in the College of Bible may count toward this minor. All General Education Bible courses may be applied toward this minor.

ADVANCED BIBLICAL STUDIES MINOR – 18 HOURS

The Advanced Biblical Studies minor is designed for students completing the BA in Bible and Ministry.

3 HOURS LOWER DIVISION

A maximum of 3 hours of lower-division courses in the College of Bible may count toward this minor.

15 HOURS UPPER DIVISION

Any upper-division course offered in the College of Bible may count toward this requirement. 9 hours must be BIBL courses. Students may choose to complete two semesters of a second Biblical language in place of 6 upper-division courses.

COLLEGE OF BUSINESS

SCHOOL OF BUSINESS

The College of Business is purposely people-driven and focused on achieving excellence. It incorporates the mission of OC and promotes the values of faith, scholarship, integrity, stewardship, and global awareness.

The College of Business builds on existing strengths - exceptional faculty, integral real-world experience, strong relationships with alumni and the community, a highly technological format for work and study, a uniquely metropolitan area, and more. We maximize our strengths and opportunities and minimize weaknesses and threats. We provide rigorous academic learning opportunities for all students. We graduate leaders of integrity who have an exceptional work ethic and who contribute in significant ways to our community, state, nation, and world.

We are dedicated to character, leadership, innovation, and hard work. We provide a distinctly Christian education that truly enriches the lives of our graduates. We prepare educated problem-solvers and equip them to lead in business. Our ultimate success is measured by the impact we have on internal and external constituents and the region. Our achievements are evidenced through the accomplishments of our graduates, the recognition of our faculty, and our commitment to facilitating a genuine learning environment. Upon graduation from OC, students have received a general education in the liberal arts, are grounded in the knowledge of business, and have encountered opportunities for integrating learning into a workable framework within the context of the Christian faith consistent with the Word of God.

The B.B.A. degrees are accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

AREAS OF STUDY

Accounting (ACCT)
Business Administration (BUSA)
Economics (ECON)
Finance (FINC)
Information Systems (INFO)
Leadership (LDSH)
Management (MGMT)
Marketing (MKTG)
Sports Management (SPMG)

DEGREES OFFERED

B.B.A. Degree in Accounting
B.B.A. Degree in Accounting with Computer Science
B.B.A. Degree in Accounting/Finance
B.B.A. Degree in Business Administration
B.B.A. Degree in Finance
B.B.A. Degree in Marketing Management
 With a Digital Marketing Emphasis
 With a Marketing Management Emphasis
 With a Professional Selling Emphasis
 With a Sports Marketing Emphasis
B.B.A. Degree in Sports Management

MINORS

Accounting
Finance
General Business
Marketing Management
Sports Management

GRADUATE SCHOOL OF BUSINESS

M.Acc. Master of Accountancy
M.B.A. Master of Business Administration

FACULTY

Bill Goad, Ed.D., Professor of Business
Wes McKinzie, D.B.A., Assistant Professor of Business
Kimberly Merritt, D.B.A., Professor of Business
Jillian Poyzer-Johnson, M.Acc., C.P.A., Assistant Professor of Accounting
Kerianne Roper, D.B.A., Professor of Business
Burt Smith, Ed.D., C.M.E., C.Q.M., Professor of Marketing
Brynn Walker, M.Acc., C.P.A., Instructor of Accounting
Steve Yerkes, M.S., Visiting Assistant Professor of Finance

DEAN

Jeffery Simmons, D.B.A., Dean, College of Business; Chair, Graduate School of Business, Professor of Business

LOCATION

Harvey Business Hall

GENERAL INFORMATION FOR THE B.B.A. DEGREE

Requirements for the B.B.A. degree can be divided into three categories:

- University Core Curriculum Requirements: All B.B.A. students must satisfy all core curriculum requirements.
- Common Professional Core: All B.B.A. students must complete the business foundation classes.
- Specialized or Minor Requirements: Students majoring in accounting, finance, management, marketing management, and/or sports management are required to complete specialized coursework in those fields. Students majoring in business administration must also complete the requirements for a minor.

GRADE REQUIREMENTS FOR B.B.A. DEGREES

All required specialized courses in the accounting, accounting/finance, finance, management, marketing management, and sports management majors must be completed with a grade of "C" or better. To move to upper-division foundation classes, a student must not have more than 15 semester hours of "D" grades.

- Accounting and accounting/finance majors are required to make a grade of "C" or better in ACCT-2113 and ACCT-2213.
- Accounting/finance and finance majors are required to make a grade of "C" or better in FINC-3313.
- Marketing management majors are required to make a grade of "C" or better in MKTG-3313.
- All students enrolling in MGMT-4613 must be in their last year and eligible for graduation, with no more than 15 hours of "D" grades in their degree program.

B.B.A. DEGREE IN ACCOUNTING

79 HOURS

Students following this program are prepared for entry-level positions in public, private, or governmental accounting. Educational requirements to sit for the Certified Public Accountant (CPA) examination vary among states. All students sitting for the CPA exam in the State of Oklahoma are required to have 150 hours of college credit, including 36 hours of upper-level accounting courses. You may fulfill this requirement by enrolling in the M.Acc. or M.B.A. program during the last semester of your senior year or taking additional undergraduate hours.

An OC graduate with a Bachelor of Business Administration degree in Accounting will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Demonstrate entry-level knowledge in financial and managerial accounting.
7. Demonstrate the ability to prepare and analyze the major financial statements: balance sheet, income statement, and statement of cash flows.
8. Demonstrate the appropriate knowledge of income taxes through the determination of proper income, deductions, rates, and credits based on authoritative support.
9. Demonstrate the effective use and understanding of accounting information systems and technology for the purpose of analyzing, problem solving and decision making.
10. Demonstrate research and presentation skills to effectively communicate both quantitative and qualitative information.
11. Demonstrate an understanding of the professional code of ethical conduct and how it impacts the accounting profession.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111 Business Orientation: Boot Camp
BUSA-1211 Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
BUSA-1011 Foundations for Growth and Success
BUSA-2011 Skills for Career and Calling
BUSA-3011 Strategies for Purpose-Driven Success
ECON-2113 Macroeconomic Principles
ECON-2213 Microeconomic Principles
INFO-1013 Business Software Tools
INFO-2013 Business Analytics

3 HOURS MATHEMATICS

MATH-1173 Quantitative Reasoning

21 HOURS UPPER DIVISION

BUSA-3213 Business Law
BUSA-3713 Business Ethics
COMM-3113 Business and Professional Communication
FINC-3313 Principles of Finance
INFO-3613 Management Information Systems
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613 Strategic Management

21 HOURS SPECIALIZED

ACCT-3113 Intermediate Accounting I
ACCT-3213 Intermediate Accounting II
ACCT-3413 Income Taxation
ACCT-3513 Advanced Federation Taxation
ACCT-4113 Advanced Accounting I
ACCT-4413 Auditing
ACCT-4713 Data Analytics in Accounting

6 HOURS SPECIALIZED CHOSEN FROM

ACCT-3713 Accounting Information Systems
ACCT-4213 Advanced Accounting II
ACCT-4313 Advanced Cost Accounting
ACCT-4423 Ethics and Auditing Concepts

3 HOURS REQUIRED

ACCT-3313 Cost Accounting

B.B.A. DEGREE IN ACCOUNTING WITH COMPUTER SCIENCE

115 HOURS

Students following this program are prepared for entry-level positions in public, private, or governmental accounting. Educational requirements to sit for the Certified Public Accountant (CPA) examination vary among states. All students sitting for the CPA exam in the State of Oklahoma are required to have 150 hours of college credit, including 30 hours of upper-level accounting courses and a total of 76 or more hours of upper-division courses. Students may fulfill this requirement by enrolling in this Accounting with Computer Science degree.

An OC graduate with a Bachelor of Science major in Accounting with Computer Science will be able to demonstrate the same learning outcomes as other accounting graduates with a few additional outcomes related to computer science. This includes:

1. Students will gain competency in the foundational areas of business and computer science (FOUNDATION)
2. Students will understand the importance of ethics, values, morals and social responsibility and relate them to the Christian worldview (ETHICS) Students will possess critical thinking, analytical, and problem-solving skills in both business and computer science areas (PROBLEM SOLVING)
3. Students will be able to work effectively in a global context (GLOBAL)
4. Students will develop professional and persuasive communication skills (COMMUNICATION)

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111 Business Orientation: Boot Camp
BUSA-1211 Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
BUSA-1011 Foundations for Growth and Success
BUSA-2011 Skills for Career and Calling
BUSA-3011 Strategies for Purpose-Driven Success
ECON-2113 Macroeconomic Principles
ECON-2213 Microeconomic Principles
INFO-1013 Business Software Tools
INFO-2013 Business Analytics

3 HOURS MATHEMATICS

MATH-1173 Quantitative Reasoning

21 HOURS UPPER DIVISION

BUSA-3213 Business Law
BUSA-3713 Business Ethics
COMM-3113 Business and Professional Communication
FINC-3313 Principles of Finance
INFO-3613 Management Information Systems
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613 Strategic Management

21 HOURS SPECIALIZED

ACCT-3113 Intermediate Accounting I
ACCT-3213 Intermediate Accounting II
ACCT-3413 Income Taxation
ACCT-3513 Advanced Federal Taxation
ACCT-4113 Advanced Accounting I
ACCT-4413 Auditing
ACCT-4713 Data Analytics

6 HOURS SPECIALIZED ACCOUNTING ELECTIVES CHOSEN FROM

ACCT-3713 Accounting Information Systems
ACCT-4213 Advanced Accounting II
ACCT-4313 Advanced Cost Accounting
ACCT-4423 Ethics and Auditing Concepts

3 HOURS REQUIRED

ACCT-3313 Cost Accounting

COMPUTER SCIENCE 36 HOURS

21 HOURS SPECIALIZED LOWER DIVISION

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-1313 Software Engineering I: Introduction
CMSC-2133 Object Oriented Programming
CMSC-2213 Internet Application Development
CMSC-2233 Data Structures and Algorithm Analysis
CMSC-2313 Software Engineering II: Practices

15 HOURS UPPER DIVISION

CMSC-3313 Software Engineering III: Ethics
CMSC-3633 Introduction to Cybersecurity
CMSC-4123 Software Engineering IV: Tools
CMSC-4243 Software Engineering V: Projects
CMSC-4323 Database Systems

B.B.A. DEGREE IN ACCOUNTING/FINANCE

100 HOURS

Students following this program are prepared for entry-level positions in public, private, or governmental accounting. Educational requirements to sit for the Certified Public Accountant (CPA) examination vary among states. All students sitting for the CPA exam in the State of Oklahoma are required to have 150 hours of college credit, including 36 hours of upper-level accounting courses. You may fulfill this requirement by enrolling with a double major in accounting and finance.

An OC graduate with a Bachelor of Business Administration degree in Accounting/Finance will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Demonstrate fundamental knowledge of business finance and accounting concepts.
7. Analyze a company's financial performance.
8. Value real and financial assets in order to make an appropriate investment decision.
9. Develop proficiency in personal financial planning concepts.
10. Successfully manage investments in the Student Investment Fund Portfolio.
11. Demonstrate entry-level knowledge in financial and managerial accounting.
12. Demonstrate the ability to prepare and analyze the major financial statements: balance sheet, income statement, and statement of cash flows.
13. Demonstrate the appropriate knowledge of income taxes through the determination of proper income, deductions, rates, and credits based on authoritative support.
14. Demonstrate the effective use and understanding of accounting information systems and technology for the purpose of analyzing, problem solving and decision making.
15. Demonstrate research and presentation skills to effectively communicate both quantitative and qualitative information.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111 Business Orientation: Boot Camp
BUSA-1211 Introduction to Business

20 HOURS LOWER DIVISION

BUSA-1301 Professional Seminar I
BUSA-2301 Professional Seminar II
ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
ECON-2113 Macroeconomic Principles
ECON-2213 Microeconomic Principles
INFO-1613 Business Software Tools
INFO-2613 Business Analytics

3 HOURS MATHEMATICS

MATH-1174 Quantitative Reasoning

22 HOURS UPPER DIVISION

BUSA-3213 Business Law
BUSA-3301 Professional Seminar III
BUSA-3713 Business Ethics
COMM-3113 Business and Professional Communication
FINC-3313 Principles of Finance
INFO-3613 Management Information Systems
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613 Strategic Management

30 HOURS SPECIALIZED ACCOUNTING

ACCT-3113 Intermediate Accounting I
ACCT-3213 Intermediate Accounting II
ACCT-3313 Cost Accounting
ACCT-3413 Income Taxation
ACCT-3513 Advanced Federal Taxation
ACCT-3713 Accounting Information Systems
ACCT-4113 Advanced Accounting I
ACCT-4213 Advanced Accounting II
ACCT-4413 Auditing
ACCT-4713 Data Analytics in Accounting

21 HOURS SPECIALIZED FINANCE COURSES

FINC-3011 Student Investment Fund Team (take 3 times)
FINC-3323 Intermediate Financial Management
FINC-3413 Introduction to Personal Financial Planning
FINC-3523 Money and Financial Markets
FINC-3613 Investment Analysis
FINC-4013 Principles of Personal Financial Planning
FINC-4513 Applications of Personal Financial Planning

B.B.A. DEGREE IN BUSINESS ADMINISTRATION

55 HOURS, MINOR REQUIRED

This program is a general one, preparing the student for entry into industrial or governmental organizations, but with specialization in a specific discipline.

An OC graduate with a Bachelor of Business Administration degree in Business Administration will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111 Business Orientation: Boot Camp

BUSA-1211 Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113 Accounting Principles I

ACCT-2213 Accounting Principles II

BUSA-1011 Foundations for Growth and Success

BUSA-2011 Skills for Career and Calling

BUSA-3011 Strategies for Purpose-Driven Success

ECON-2113 Macroeconomic Principles

ECON-2213 Microeconomic Principles

INFO-1013 Business Software Tools

INFO-2013 Business Analytics

3 HOURS MATHEMATICS

MATH-1173 Quantitative Reasoning

21 HOURS UPPER DIVISION

BUSA-3213 Business Law

BUSA-3713 Business Ethics

COMM-3113 Business and Professional Communication

FINC-3313 Principles of Finance

INFO-3613 Management Information Systems

MGMT-3113 Principles of Management

MKTG-3313 Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613 Strategic Management

6 HOURS CHOSEN FROM

Any upper-division AACT, BUSA, FINC, MGMT, MKTG or SPMG course

A MINOR OF AT LEAST 18 HOURS

The purpose of a minor is to broaden the student's educational experience. Minors offered through the College of Business may not be chosen. Courses cannot count in both the major and the minor.

B.B.A. DEGREE IN FINANCE

73 HOURS

The Finance major promotes the development of effective practitioners. Graduates go directly to the workforce in the financial services sector or business financial management. Others find finance helpful for graduate business, law, and other professional fields.

An OC graduate with a Bachelor of Business Administration degree in Finance will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Demonstrate fundamental knowledge of business finance and accounting concepts.
7. Analyze a company's financial performance.
8. Value real and financial assets in order to make an appropriate investment decision.
9. Develop proficiency in personal financial planning concepts.
10. Successfully manage investments in the Student Investment Fund Portfolio.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111 Business Orientation: Boot Camp
BUSA-1211 Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
BUSA-1011 Foundations for Growth and Success
BUSA-2011 Skills for Career and Calling
BUSA-3011 Strategies for Purpose-Driven Success
ECON-2113 Macroeconomic Principles
ECON-2213 Microeconomic Principles
INFO-1613 Business Software Tools
INFO-2613 Business Analytics

3 HOURS MATHEMATICS

MATH-1173 Quantitative Reasoning

21 HOURS UPPER DIVISION

BUSA-3213 Business Law
BUSA-3713 Business Ethics
COMM-3113 Business and Professional Communication
FINC-3313 Principles of Finance
INFO-3613 Management Information Systems
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613 Strategic Management

15 HOURS SPECIALIZED FINANCE

FINC-3011 Student Investment Fund Team (take 3 times)
FINC-3323 Intermediate Financial Management
FINC-3413 Introduction to Personal Financial Planning
FINC-3523 Money and Financial Markets
FINC-3613 Investment Analysis

9 HOURS CHOSEN FROM

ACCT-3113 Intermediate Accounting I
ACCT-3313 Cost Accounting I
ACCT-3413 Income Taxation*
ACCT-3713 Accounting Information System
ACCT-4713 Data Analytics
FINC-4013 Principles of Personal Financial Planning*
FINC-4513 Applications of Personal Financial Planning*

*Students seeking CFP certification should take these

B.B.A. DEGREE IN MARKETING MANAGEMENT WITH DIGITAL MARKETING EMPHASIS

76 HOURS

The Marketing Management program prepares students for traditional marketing, promotion, sales, sales management, and marketing research responsibilities. This specialization develops skills for the recognition and analysis of marketing problems, both from the organizational and external market perspectives.

An OC graduate with a Bachelor of Business Administration degree in Marketing will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Demonstrate understanding of the 5th P of marketing, People.
7. Demonstrate understanding of Quantitative Research Techniques and Statistics.
8. Effectively apply the elements of the AIDA model in the analysis of marketing communication.
9. Distinguish differences between Features, Advantages, and Benefits (FABs) and develop Features, Advantages and Benefits statements for a particular product.
10. Understand the essentials of market segmentation, targeting, and positioning and their use in strategic marketing.
11. Understand the essential components of a marketing plan, its purpose and role within the organization, and be able to develop a basic marketing plan framework.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111 Business Orientation: Boot Camp
BUSA-1211 Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
BUSA-1011 Foundations for Growth and Success
BUSA-2011 Skills for Career and Calling
BUSA-3011 Strategies for Purpose-Driven Success
ECON-2113 Macroeconomic Principles
ECON-2213 Microeconomic Principles
INFO-1013 Business Software Tools
INFO-2013 Business Analytics

3 HOURS MATHEMATICS

MATH-1173 Quantitative Reasoning

21 HOURS UPPER DIVISION

BUSA-3213 Business Law
BUSA-3713 Business Ethics
COMM-3113 Business and Professional Communication
FINC-3313 Principles of Finance
INFO-3613 Management Information Systems
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613 Strategic Management

6 HOURS REQUIRED SPECIALIZED

INFO-3613 Management Information Systems
MKTG -3513 Digital Marketing

12 HOURS OF SPECIALIZED REQUIRED

MKTG-2413 Consumer Behavior
MKTG-3713 Sales Management and the Sales Process
MKTG-4513 Marketing Research and Analysis
MKTG-4613 Marketing Management

6 HOURS DIGITAL MARKETING REQUIRED

COMM-2813 Social Media and Advertising Principles
MKTG-3733 Promotional Strategies

3 HOURS DIGITAL MARKETING ELECTIVES CHOSEN FROM

ARTS-1103 Digital Imaging I
MKTG-4993 Internship in Marketing

B.B.A. DEGREE IN MARKETING MANAGEMENT WITH MARKETING MANAGEMENT EMPHASIS

76 HOURS

The Marketing Management program prepares students for traditional marketing, promotion, sales, sales management, and marketing research responsibilities. This specialization develops skills for the recognition and analysis of marketing problems, both from the organizational and external market perspectives.

An OC graduate with a Bachelor of Business Administration degree in Marketing will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Demonstrate understanding of the 5th P of marketing, People.
7. Demonstrate understanding of Quantitative Research Techniques and Statistics.
8. Effectively apply the elements of the AIDA model in the analysis of marketing communication.
9. Distinguish differences between Features, Advantages, and Benefits (FABs) and develop Features, Advantages and Benefits statements for a particular product.
10. Understand the essentials of market segmentation, targeting, and positioning and their use in strategic marketing.
11. Understand the essential components of a marketing plan, its purpose and role within the organization, and be able to develop a basic marketing plan framework.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation: Boot Camp
BUSA-1211	Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
BUSA-1011	Foundations for Growth and Success
BUSA-2011	Skills for Career and Calling
BUSA-3011	Strategies for Purpose-Driven Success
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles
INFO-1013	Business Software Tools
INFO-2013	Business Analytics

3 HOURS MATHEMATICS

MATH-1173	Quantitative Reasoning
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21 HOURS UPPER DIVISION

BUSA-3213	Business Law
BUSA-3713	Business Ethics
COMM-3113	Business and Professional Communication
FINC-3313	Principles of Finance
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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6 HOURS SPECIALIZED REQUIRED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

12 HOURS OF SPECIALIZED REQUIRED

MKTG-2413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research and Analysis
MKTG-4613	Marketing Management

6 HOURS MARKETING MANAGEMENT REQUIRED

MGMT-3323	Entrepreneurship and Small Business Management
MKTG-3733	Promotional Strategies

3 HOURS MARKETING MANAGEMENT ELECTIVES CHOSEN FROM

MKTG-4533	Issues in Management
MKTG-4993	Internship in Marketing

B.B.A. DEGREE IN MARKETING MANAGEMENT WITH PROFESSIONAL SELLING EMPHASIS

79 HOURS

The Marketing Management program prepares students for traditional marketing, promotion, sales, sales management, and marketing research responsibilities. This specialization develops skills for the recognition and analysis of marketing problems, both from the organizational and external market perspectives.

An OC graduate with a Bachelor of Business Administration degree in Marketing will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Demonstrate understanding of the 5th P of marketing, People.
7. Demonstrate understanding of Quantitative Research Techniques and Statistics.
8. Effectively apply the elements of the AIDA model in the analysis of marketing communication.
9. Distinguish differences between Features, Advantages, and Benefits (FABs) and develop Features, Advantages and Benefits statements for a particular product.
10. Understand the essentials of market segmentation, targeting, and positioning and their use in strategic marketing.
11. Understand the essential components of a marketing plan, its purpose and role within the organization, and be able to develop a basic marketing plan framework.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation: Boot Camp
BUSA-1211	Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
BUSA-1011	Foundations for Growth and Success
BUSA-2011	Skills for Career and Calling
BUSA-3011	Strategies for Purpose-Driven Success
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles
INFO-1013	Business Software Tools
INFO-2013	Business Analytics

3 HOURS MATHEMATICS

MATH-1173	Quantitative Reasoning
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21 HOURS UPPER DIVISION

BUSA-3213	Business Law
BUSA-3713	Business Ethics
COMM-3113	Business and Professional Communication
FINC-3313	Principles of Finance
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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6 HOURS SPECIALIZED REQUIRED

INFO-3613	Management Information Systems
MKTG -3513	Digital Marketing

12 HOURS OF SPECIALIZED REQUIRED

MKTG-2413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research and Analysis
MKTG-4613	Marketing Management

9 HOURS PROFESSIONAL SELLING REQUIRED

COMM-4113	Persuasion and Advocacy
MGMT-3323	Entrepreneurship and Small Business Management
PSYC-3413	Social Psychology

3 HOURS PROFESSIONAL SELLING ELECTIVES CHOSEN FROM

COMM-3353	Interpersonal Communication
COMM-4523	Conflict Resolution and Peacemaking
MGMT-4993	Internship in Marketing

B.B.A. DEGREE IN MARKETING MANAGEMENT WITH SPORTS MARKETING EMPHASIS

76 HOURS

The Marketing Management program prepares students for traditional marketing, promotion, sales, sales management, and marketing research responsibilities. This specialization develops skills for the recognition and analysis of marketing problems, both from the organizational and external market perspectives.

An OC graduate with a Bachelor of Business Administration degree in Marketing will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Demonstrate understanding of the 5th P of marketing, People.
7. Demonstrate understanding of Quantitative Research Techniques and Statistics.
8. Effectively apply the elements of the AIDA model in the analysis of marketing communication.
9. Distinguish differences between Features, Advantages, and Benefits (FABs) and develop Features, Advantages and Benefits statements for a particular product.
10. Understand the essentials of market segmentation, targeting, and positioning and their use in strategic marketing.
11. Understand the essential components of a marketing plan, its purpose and role within the organization, and be able to develop a basic marketing plan framework.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111 Business Orientation: Boot Camp
BUSA-1211 Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
BUSA-1011 Foundations for Growth and Success
BUSA-2011 Skills for Career and Calling
BUSA-3011 Strategies for Purpose-Driven Success
ECON-2113 Macroeconomic Principles
ECON-2213 Microeconomic Principles
INFO-1013 Business Software Tools
INFO-2013 Business Analytics

3 HOURS MATHEMATICS

MATH-1173 Quantitative Reasoning

21 HOURS UPPER DIVISION

BUSA-3213 Business Law
BUSA-3713 Business Ethics
COMM-3113 Business and Professional Communication
FINC-3313 Principles of Finance
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613 Strategic Management

6 HOURS SPECIALIZED REQUIRED

INFO-3613 Management Information Systems
MKTG -3513 Digital Marketing

12 HOURS OF SPECIALIZED REQUIRED

MKTG-2413 Consumer Behavior
MKTG-3713 Sales Management and the Sales Process
MKTG-4513 Marketing Research and Analysis
MKTG-4613 Marketing Management

6 HOURS SPORTS MARKETING REQUIRED

SPMG-3613 Sports Marketing and Promotion
SPMG-4213 Sport Facilities and Events

3 HOURS SPORTS MARKETING ELECTIVES CHOSEN FROM

COMM-2813 Social Media and Advertising Principles
MKTG-3733 Promotional Strategies
MKTG-4993 Internship in Marketing

B.B.A. DEGREE IN SPORTS MANAGEMENT

79 HOURS

An OC graduate with a Bachelor of Business Administration degree in Sports Management will:

1. Gain competency in the foundational areas of business.
2. Understand the importance of ethics, values, morals, and social responsibility and relate them to the Christian worldview.
3. Possess critical thinking, analytical, and problem-solving skills.
4. Be able to work effectively in a global context.
5. Develop professional and persuasive communication skills.
6. Identify and describe foundational concepts relevant to effective sports management practice, including knowledge of management, marketing, financial, legal, and sociological concepts.
7. Understand and develop the skills and relationships necessary for effective sports management practice.
8. Model the oral, written, and interpersonal communication skills necessary for effective sports management practice.
9. Demonstrate the ability and understanding of how to generate revenue in the sports industry.
10. Demonstrate the ability to apply critical thinking skills, ethical frameworks, and research to informed, effective decision making in the sports industry.
11. Develop collaborative skills and perspectives that demonstrate an understanding of the need for diversity and inclusion in the sports industry.
12. Apply acquired knowledge and skills in real-world sports management settings and tasks.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation: Boot Camp
BUSA-1211	Introduction to Business

21 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
BUSA-1011	Foundations for Growth and Success
BUSA-2011	Skills for Career and Calling
BUSA-3011	Strategies for Purpose-Driven Success
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles
INFO-1013	Business Software Tools
INFO-2013	Business Analytics

3 HOURS MATHEMATICS

MATH-1173	Quantitative Reasoning
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21 HOURS UPPER DIVISION

BUSA-3213	Business Law
BUSA-3713	Business Ethics
COMM-3113	Business and Professional Communication
FINC-3313	Principles of Finance
INFO-3613	Management Information Systems
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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24 HOURS SPORTS MANAGEMENT REQUIRED

MKTG-3713	Sales Management and the Sales Process
SPMG-3313	The Business of Sports
SPMG-3323	Sports Analytics
SPMG-3413	Sports Management and Leadership
SPMG-3613	Sports Marketing and Promotion
SPMG-4313	Sports in Society
SPMG-4613	Sports Finance & Operations
SPMG-4993	Sports Management Practicum

6 HOURS ADDITIONAL SPORTS MANAGEMENT CHOSEN FROM

SPMG-3233	Theory of Coaching
SMPG-4113	Sports Law
SPMG-4213	Sports Facilities & Events

COLLEGE OF BUSINESS

GRADUATE SCHOOL OF BUSINESS

AREAS OF STUDY

Accounting (ACCT)
Business Administration (BUSA)
Finance (FINC)
Health Services Management (HSMT)
Human Resource Management (HRMT)
International Business (INTL)
Management (MGMT)
Marketing (MKTG)
Project Management (BUSA)

DEGREES OFFERED

B.B.A. Degree in Accounting
B.B.A. Degree in Accounting/Finance
B.B.A. Degree in Business Administration
B.B.A. Degree in Finance
B.B.A. Degree in Management
B.B.A. Degree in Marketing Management
With a Digital Marketing Emphasis
With a Marketing Management Emphasis
With a Professional Selling Emphasis
With a Sports Marketing Emphasis
B.B.A. Degree in Sports Management
B.B.A. Degree in Accounting with Computer Science

DUAL DEGREES OFFERED

M.Acc. Degree in Accounting
B.B.A. Degree in Accounting
M.B.A. Degree
B.B.A. Degree in Marketing Management
With a Digital Marketing Emphasis
With a Marketing Management Emphasis
With a Professional Selling Emphasis
With Sports Marketing Emphasis

GRADUATE DEGREES OFFERED

M.Acc. Degree in Accounting
M.B.A. Degree
M.S. Degree In Project Management

FACULTY

Bill Goad, Ed.D., Professor of Business
Wes McKinzie, D.B.A., Assistant Professor of Business
Kimberly Merritt, D.B.A., Professor of Business
Jillian Poyzer-Johnson, M.Acc., C.P.A., Assistant Professor of Accounting
Kerianne Roper, D.B.A., Professor of Business
Burton Smith, Ed.D., Professor of Marketing
Brynn Walker, M.Acc., C.P.A., Instructor of Accounting
Steve Yerkes, M.S., Visiting Assistant Professor of Finance

DEAN

Jeffery Simmons, D.B.A., Dean, College of Business; Chair, Graduate School of Business, Professor of Business

LOCATION

Harvey Business Hall

ADMISSIONS REQUIREMENTS

To be accepted into the dual bachelor/master degree programs, an applicant must:

- Be a current accounting or marketing management major with a minimum 3.25 overall grade and
- Apply prior to taking 90 hours in undergraduate studies (not including prior learning credits, such as AP, etc.).

STUDENT FINANCIAL STATUS

A student in a dual undergraduate/graduate degree program is considered a graduate student when they have completed eight full-time (12 hours) semesters, including full-time summer semesters, of undergraduate studies. These full-time semesters may be completed at OC or another institution. The change to graduate student status will impact a student's use of scholarships, financial aid, and tuition rates. For more information concerning graduate degrees, please refer to the Graduate Academic Catalog at www.oc.edu/registrar.

Once the full requirements of both degrees are met, the student will be awarded both a bachelor and master degree in their program.

Note: It is possible for a student to change back to an undergraduate program at any time and receive a degree under that program if the requirements have been met.

B.B.A. IN ACCOUNTING & M.ACC. IN ACCOUNTING

70 UG HOURS, 30 GR HOURS

For program description, learning outcomes, and curriculum requirements for the B.B.A. degree in Accounting, see page 40.

The Master of Accountancy (M.Acc.) degree consists of 30 credit hours for students possessing undergraduate degrees in accounting or students who have completed 30 hours of accounting and have a bachelor degree. **The exception is dual degree students who have applied and been approved to complete their undergraduate and graduate degree coursework at the same time.** The core of the M.Acc. degree focuses on advanced accounting topics. The program will utilize "hands-on" experiences and theory-based research. Of the 30 graduate credit hours, 18 hours (six courses) are devoted to accounting, and 12 hours (four courses) focus on other business-related topics.

A graduate with the M.Acc. degree in Accounting will be able to:

1. Inform their professional behavior with understanding of the ethical standards of a Christian worldview.
2. Command a diverse knowledge base and apply it effectively and ethically.
3. Recognize when information is needed and locate, evaluate, and use the needed information effectively.
4. Use the appropriate quantitative and qualitative methodologies to process and organize information into useful forms and models.
5. Reach, accept, or create appropriate conclusions and works after a comprehensive exploration of options, issues, ideas, artifacts, and events.
6. Use an understanding of how meanings are constructed between people to form relationships and communicate information effectively via oral, written, and interpersonal means.
7. Demonstrate awareness of the impact the graduate, other individuals, and societies can have in their world and express that awareness with compassion and respect for self and others of similar and different worldviews and cultures.

For more information about the M.Acc. degree, see the Graduate Academic Catalog.

Students must complete a minimum of 122 hours including the major and core to complete the B.B.A. degree. Elective hours may be needed to reach 122 hours.

B.B.A. Degree in Accounting Requirements

For program description, learning outcomes, and curriculum requirements for the B.B.A. degree in Accounting, see page 36.

M.Acc. Degree in Accounting Requirements

18 HOURS ACCOUNTING FOUNDATION STUDIES

ACCT-5113	Advanced Tax Accounting
ACCT-5123	Advanced Auditing and Professional Ethics
ACCT-5133	Advanced Financial Accounting
ACCT-5143	Topics in Accounting
ACCT-5153	Accounting Theory
ACCT-5163	Accounting Research and Quantitative Techniques

12 HOURS BUSINESS

BUSA-5203	Managerial Economics
BUSA-5213	Legal and Regulatory Issues
FINC-5103	Financial Management
MGMT-5603	Managerial Ethics

B.B.A. IN MARKETING MANAGEMENT (MULTIPLE EMPHASES) & M.B.A. 70 UG HOURS, 36 GR HOURS

For program description, learning outcomes, and curriculum requirements for the B.B.A. degrees in Marketing Management (multiple emphases), see pages 41-44.

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. **The exception is dual degree students who have applied and been approved to complete their undergraduate and graduate degree coursework at the same time.** The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills.

A graduate with the M.B.A. degree in Marketing will be able to:

1. Inform their professional behavior with understanding of the ethical standards of a Christian worldview.
2. Command a diverse knowledge base and apply it effectively and ethically.
3. Recognize when information is needed and locate, evaluate, and use the needed information effectively.
4. Use the appropriate quantitative and qualitative methodologies to process and organize information into useful forms and models.
5. Reach, accept, or create appropriate conclusions and works after a comprehensive exploration of options, issues, ideas, artifacts, and events.
6. Use an understanding of how meanings are constructed between people to form relationships and communicate information effectively via oral, written, and interpersonal means.
7. Demonstrate awareness of the impact the graduate, other individuals, and societies can have in their world and express that awareness with compassion and respect for self and others of similar and different worldviews and cultures.

For more information about the M.B.A. degree, see the Graduate Academic Catalog.

Students must complete a minimum of 122 hours including the major and core to complete the B.B.A. degree. Elective hours may be needed to reach 122 hours.

B.B.A. Degree in Marketing Management Requirements

Undergraduate students have multiple emphasis areas in Marketing Management from which to choose. For program descriptions, learning outcomes, and curriculum requirements for each of the B.B.A. degree in Marketing Management emphases, students should refer to the following pages:

- Marketing Management with Digital Marketing Emphasis - page 46.
- Marketing Management with Marketing Management Emphasis - page 47.
- Marketing Management with Professional Selling Emphasis - page 48.
- Marketing Management with Sports Marketing Emphasis - page 49.

Up to six hours of undergraduate marketing electives should be satisfied by graduate marketing coursework. Dual degree students should take MKTG-5713: The Sales Process and Ethical Influence to count for MKTG-3713: Sales Management and the Sales Process and MKTG-5763: Digital Marketing to count for MKTG-3513: Digital Marketing.

M.B.A. Requirements

36 HOURS BUSINESS FOUNDATION

BUSA-5010	GSB Orientation
ACCT-5103	Accounting Analytics
BUSA-5203	Managerial Economics
BUSA-5213	Legal and Regulatory Issues
BUSA-5723	Data Analytics & Visualization
FINC-5103	Financial Management
INFO-5303	Business Intelligence
MGMT-5603	Managerial Ethics
MGMT-5613	Leader Effectiveness
MGMT-5623	Team and Group Leadership
MGMT-5643	Organizational Development and Design
MGMT-5653	Strategic Management
MKTG-5703	Marketing Management

COLLEGE OF BUSINESS MINORS

ACCOUNTING MINOR - 19 HOURS

1 hours Business Foundation

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
ACCT-3113 Intermediate Accounting I
ACCT-3313 Cost Accounting
FINC-3313 Principles of Finance

6 hours Accounting chosen from

ACCT-3413 Income Taxation
ACCT-4413 Auditing
ACCT-4713 Data Analytics in Accounting

FINANCE MINOR - 18 HOURS

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
FINC-3313 Principles of Finance

9 hours chosen from any other FINC

GENERAL BUSINESS MINOR - 19 HOURS

13 hours Business Foundation

ACCT-2113 Accounting Principles I
BUSA-1211 Introduction to Business
ECON-2113 Macroeconomic Principles
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

6 upper-division from any two Business Disciplines

MARKETING MINOR - 18 HOURS

MKTG-2413 Consumer Behavior
MKTG-3313 Principles of Marketing
MKTG-3513 Digital Marketing
MKTG-3713 Sales Mgt. and the Sales Process
MKTG-4513 Marketing Research and Analysis
MKTG-4613 Marketing Management

SPORTS MANAGEMENT MINOR - 18 HOURS

15 hours Sports Management foundation

SPMG 3313 The Business of Sports
SPMG 3413 Sports Management & Leadership
SPMG 3613 Sports Marketing & Promotion
SPMG 4313 Sports in Society
SPMG 4613 Sports Finance & Operations

3 hours chosen from:

SPMG 3323 Sports Analytics
SPMG 4113 Sports Law
SPMG 4213 Sports Facilities & Events

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

AREAS OF STUDY

Computer Science (CMSC)

DEGREES OFFERED

B.S. Degree in Computer Science

B.S. Degree in Computer Science

With Artificial Intelligence Emphasis

With a Business Emphasis

With a Cybersecurity Emphasis

With a Gaming and Animation Emphasis

MINORS

Computer Science

Software Engineering

GRADUATE SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

M.S.C.S. Master of Science in Computer Science

FACULTY

Curtis Coleman, M.S., Assistant Professor of Computer Science

Daniel Griffin, M.S., Instructor of Computer Science

Fang Li, Ph.D. candidate, Assistant Professor of Computer Science

Robert Nix, Ph.D., Associate Professor of Computer Science

David North, M.S., Chair, Department of Computer Science, Associate Professor of Computer Science

Pat Smith, M.S., Associate Professor of Computer Science

DEAN

Byron Newberry, Ph.D., Dean, College of Engineering & Computer Science; Chair, Graduate School of Engineering & Computer Science;

Professor of Mechanical Engineering; Associate Provost

LOCATION

Prince Engineering Center

B.S. DEGREE IN COMPUTER SCIENCE

81 HOURS

A graduate with a Bachelor of Science degree in Computer Science will:

1. Be able to demonstrate understanding of and the ability to apply core computer science principles, knowledge, and skills to solve problems using computers.
2. Be able to apply a Christian worldview in the practice of computer science.
3. Be prepared for a career and/or vocation using computer science.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS LOWER DIVISION

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-1313	Software Engineering I: Introduction
CMSC-2133	Object-Oriented Programming
CMSC-2213	Internet Application Development
CMSC-2233	Data Structures and Algorithm Analysis
CMSC-2313	Software Engineering II: Practices
CMSC-2413	Assembly Language

21 HOURS UPPER DIVISION

CMSC-3313	Software Engineering III: Ethics
CMSC-3443	Computer Organization and Architecture
CMSC-4123	Software Engineering IV: Tools
CMSC-4243	Software Engineering V: Projects
CMSC-4323	Database Systems
CMSC-4413	Operating Systems
CMSC-4513	Programming Languages

12 HOURS UPPER DIVISION CHOSEN FROM

Take any upper-division CMSC course not already taken, which can include CENG-4213.

3 HOURS COMMUNICATION CHOSEN FROM

COMM-3113	Business and Professional Communication
ENGL-3493	Technical Writing

17 HOURS MATHEMATICS

MATH-1623	Introduction to Discrete Mathematics
MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2913	Statistical Methods
MATH-3513	Linear Algebra

2 HOURS LOWER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-2011	Computer Science Team Experience I
CMSC-2011	Computer Science Team Experience I

2 HOURS UPPER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-4011	Computer Science Team Experience II
CMSC-4011	Computer Science Team Experience II

B.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN ARTIFICIAL INTELLIGENCE

82 HOURS

A graduate with a Bachelor of Science degree in Computer Science with Artificial Intelligence will:

1. Be able to demonstrate understanding of and the ability to apply Artificial Intelligence knowledge, principles, and skills to solve problems using computers.
2. Be able to apply a Christian worldview in the practice of computer science and Artificial Intelligence.
3. Be prepared for a career and/or vocation using computer science, especially in the field of Artificial Intelligence.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS LOWER DIVISION

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-1313 Software Engineering I: Introduction
CMSC-2133 Object-Oriented Programming
CMSC-2213 Internet Application Development
CMSC-2233 Data Structures and Algorithm Analysis
CMSC-2313 Software Engineering II: Practices
CMSC-2413 Assembly Language

21 HOURS UPPER DIVISION

CMSC-3313 Software Engineering III: Ethics
CMSC-3443 Computer Organization and Architecture
CMSC-4123 Software Engineering IV: Tools
CMSC-4243 Software Engineering V: Projects
CMSC-4323 Database Systems
CMSC-4413 Operating Systems
CMSC-4513 Programming Languages

6 HOURS UPPER DIVISION CHOSEN FROM

Take any upper-division CMSC course not already taken, which can include CENG-4213.

3 HOURS COMMUNICATION CHOSEN FROM

COMM-3113 Business and Professional Communication
ENGL-3493 Technical Writing

9 HOURS MATHEMATICS

MATH-1623 Introduction to Discrete Mathematics
MATH-2913 Statistical Methods
CMSC-3003 Math for Artificial Intelligence

15 HOURS ARTIFICIAL INTELLIGENCE

CMSC-3123 AI Technologies
CMSC-4383 Robotics and IOT
CMSC-4713 Artificial Intelligence
CMSC-4723 Machine Learning
CMSC-4783 Large Language Models

2 HOURS LOWER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-2011 Computer Science Team Experience I
CMSC-2011 Computer Science Team Experience I

2 HOURS UPPER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-4011 Computer Science Team Experience II
CMSC-4011 Computer Science Team Experience II

B.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN BUSINESS

82 HOURS

A graduate with a Bachelor of Science degree in Computer Science with Business will:

1. Be able to demonstrate understanding of and the ability to apply core computer science principles, knowledge, and skills to solve problems using computers.
2. Be able to demonstrate understanding of and ability to apply accounting, finance, management, and marketing knowledge to solve problems in business, especially using computers.
3. Be able to apply a Christian worldview in the practice of computer science.
4. Be prepared for a career and/or vocation using computer science, especially in the business field.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS LOWER DIVISION

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-1313 Software Engineering I: Introduction
CMSC-2133 Object-Oriented Programming
CMSC-2213 Internet Application Development
CMSC-2233 Data Structures and Algorithm Analysis
CMSC-2313 Software Engineering II: Practices
CMSC-2413 Assembly Language

21 HOURS UPPER DIVISION

CMSC-3313 Software Engineering III: Ethics
CMSC-3443 Computer Organization and Architecture
CMSC-4123 Software Engineering IV: Tools
CMSC-4243 Software Engineering V: Projects
CMSC-4323 Database Systems
CMSC-4413 Operating Systems
CMSC-4513 Programming Languages

9 HOURS UPPER DIVISION CHOSEN FROM

Take any upper-division CMSC course not already taken, which can include CENG-4213.

3 HOURS COMMUNICATION CHOSEN FROM

COMM-3113 Business and Professional Communication
ENGL-3493 Technical Writing

6 HOURS MATHEMATICS

MATH-1623 Introduction to Discrete Mathematics
MATH-2913 Statistical Methods

15 HOURS BUSINESS CHOSEN FROM

ACCT-2113 Accounting Principles I
ACCT-2213 Accounting Principles II
ECON-2113 Macroeconomics
FINC-3113 Financial Management
INFO-3613 Management Information Systems
MGMT-3113 Principles of Management
MKTG-3313 Principles of Marketing

2 HOURS LOWER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-2011 Computer Science Team Experience I
CMSC-2011 Computer Science Team Experience I

2 HOURS UPPER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-4011 Computer Science Team Experience II
CMSC-4011 Computer Science Team Experience II

B.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN CYBERSECURITY

82 HOURS

A graduate with a Bachelor of Science degree in Computer Science with Cybersecurity will:

4. Be able to demonstrate understanding of and the ability to apply core computer science principles, knowledge, and skills to solve problems using computers.
5. Be able to apply a Christian worldview in the practice of computer science.
6. Be prepared for a career and/or vocation using computer science, especially in the cybersecurity field.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS LOWER DIVISION

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-1313 Software Engineering I: Introduction
CMSC-2133 Object-Oriented Programming
CMSC-2213 Internet Application Development
CMSC-2233 Data Structures and Algorithm Analysis
CMSC-2313 Software Engineering II: Practices
CMSC-2413 Assembly Language

21 HOURS UPPER DIVISION

CMSC-3313 Software Engineering III: Ethics
CMSC-3443 Computer Organization and Architecture
CMSC-4123 Software Engineering IV: Tools
CMSC-4243 Software Engineering V: Projects
CMSC-4323 Database Systems
CMSC-4413 Operating Systems
CMSC-4513 Programming Languages

9 HOURS UPPER DIVISION CHOSEN FROM

Take any upper-division CMSC course not already taken.

3 HOURS COMMUNICATION CHOSEN FROM

COMM-3113 Business and Professional Communication
ENGL-3493 Technical Writing

6 HOURS MATHEMATICS

MATH-1623 Introduction to Discrete Mathematics
MATH-2913 Statistical Methods

15 HOURS CYBERSECURITY

CENG-4213 Network Engineering
CMSC-3633 Introduction to Cybersecurity
CMSC-4643 Network Security
CMSC-4653 Cloud Architecture and Security
CMSC-4663 Network Forensics

2 HOURS LOWER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-2011 Computer Science Team Experience I
CMSC-2011 Computer Science Team Experience I

2 HOURS UPPER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-4011 Computer Science Team Experience II
CMSC-4011 Computer Science Team Experience II

B.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN GAMING AND ANIMATION

82 HOURS

A graduate with a Bachelor of Science degree in Computer Science with Gaming and Animation will:

1. Be able to demonstrate understanding of and the ability to apply core computer science principles, knowledge, and skills to solve problems using computers.
2. Be able to demonstrate understanding of and ability to apply gaming and animation knowledge and skills to solve problems in the computer gaming industry.
3. Be able to apply a Christian worldview in the practice of computer science.
4. Be prepared for a career and/or vocation using computer science, especially in the gaming and animation field.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS LOWER DIVISION

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-1313	Software Engineering I: Introduction
CMSC-2133	Object-Oriented Programming
CMSC-2213	Internet Application Development
CMSC-2233	Data Structures and Algorithm Analysis
CMSC-2313	Software Engineering II: Practices
CMSC-2413	Assembly Language

21 HOURS UPPER DIVISION

CMSC-3313	Software Engineering III: Ethics
CMSC-3443	Computer Organization and Architecture
CMSC-4123	Software Engineering IV: Tools
CMSC-4243	Software Engineering V: Projects
CMSC-4323	Database Systems
CMSC-4413	Operating Systems
CMSC-4513	Programming Languages

9 HOURS UPPER DIVISION CHOSEN FROM

Take any upper-division CMSC course not already taken, which can include CENG-4213.

3 HOURS COMMUNICATION CHOSEN FROM

COMM-3113	Business and Professional Communication
ENGL-3493	Technical Writing

6 HOURS MATHEMATICS

MATH-1623	Introduction to Discrete Mathematics
MATH-2913	Statistical Methods

15 HOURS GAMING AND ANIMATION

ARTS-2133	Introduction to Game Technology
ARTS-2743	3D Modeling I
ARTS-3453	Team Game Production I
CMSC-3203	Game Programming - Unity
CMSC-3253	Game Programming - Unreal

2 HOURS LOWER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-2011	Computer Science Team Experience I
CMSC-2011	Computer Science Team Experience I

2 HOURS UPPER DIVISION COMPUTER SCIENCE TEAM EXPERIENCE

CMSC-4011	Computer Science Team Experience II
CMSC-4011	Computer Science Team Experience II

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEPARTMENT OF MATHEMATICS

AREAS OF STUDY

Mathematics (MATH)

DEGREES OFFERED

B.S. Degree in Mathematics

With a Mathematics/Computer Science Emphasis

B.S.E. Degree in Mathematics Education

MINORS

Mathematics

FACULTY

Jennifer Bryan, Ph.D., Chair, Department of Mathematics; Professor of Mathematics

Paul Howard, Ph.D., Professor of Mathematics

DEAN

Byron Newberry, Ph.D., Dean, College of Engineering & Computer Science; Chair, Graduate School of Engineering & Computer Science;

Professor of Mechanical Engineering; Associate Provost

LOCATION

Prince Engineering Center

B.S. DEGREE IN MATHEMATICS

48 HOURS, MINOR REQUIRED

An OC graduate with a Bachelor of Science degree in Mathematics will:

1. Demonstrate a thorough knowledge of the foundational principles of analysis, algebra, and geometry and be able to use standard problem-solving methods in a variety of contexts.
2. Exhibit the ability to adapt to new environments and advances in technology, apply research methodologies, and to learn independently.
3. Work effectively with others, including the ability to describe mathematical problems, solutions, proofs, and logical arguments in a clear, concise manner using both written and oral communication.
4. Demonstrate a thorough knowledge of the liberal arts, living as a person of integrity with an ability to think, act, and communicate from a Christian worldview in all areas of life.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

18 HOURS LOWER DIVISION MATHEMATICS

MATH-1623 Introduction to Discrete Mathematics
MATH-2114 Calculus I with Analytical Geometry
MATH-2214 Calculus II with Analytical Geometry
MATH-2314 Calculus III
MATH-2913 Statistical Methods

15 HOURS UPPER DIVISION MATHEMATICS

MATH-3013 Differential Equations
MATH-3313 Modern Algebra I
MATH-3513 Linear Algebra
MATH-3813 Modern Geometry
MATH-4113 Probability and Statistics I

12 HOURS AND UPPER DIVISION MATHEMATICS NOT USED ABOVE

3 HOURS LOWER DIVISION ELECTIVES CHOSEN FROM

MATH-1163 Applied Mathematics
MATH-1173 Quantitative Reasoning
MATH-1223 Mathematical Functions and Modeling

Students interested in an Actuarial Science emphasis may complete a Mathematics major with a minor in Finance with suggested courses or a Finance major with a minor in Mathematics with suggested courses. Talk to your academic advisor for a list of suggested courses.

B.S. DEGREE IN MATHEMATICS/COMPUTER SCIENCE

71 HOURS

An OC graduate with a Bachelor of Science degree in Mathematics/Computer Science will:

1. Demonstrate a thorough knowledge of the foundational principles of analysis, algebra, and geometry and be able to use standard problem-solving methods in a variety of contexts.
2. Recognize the ethical and appropriate use of technology and apply the theories and principles of computer science to effectively solve problems in a timely and cost-effective manner.
3. Exhibit the ability to adapt to new environments and advances in technology, apply research methodologies, and to learn independently.
4. Work effectively with others, including the ability to describe mathematical problems, solutions, proofs, and logical arguments in a clear, concise manner using both written and oral communication.
5. Demonstrate a thorough knowledge of the liberal arts, living as a person of integrity with an ability to think, act, and communicate from a Christian worldview in all areas of life.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

18 HOURS LOWER DIVISION MATHEMATICS

MATH-1623	Introduction to Discrete Mathematics
MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2314	Calculus III
MATH-2913	Statistical Methods

9 HOURS REQUIRED

MATH-3013	Differential Equations
MATH-3513	Linear Algebra
MATH-4113	Probability and Statistics I

12 HOURS UPPER DIVISION MATHEMATICS ELECTIVES, INCLUDING TWO OF THE FOLLOWING COURSES

MATH-3413	Modern Algebra II
MATH-3813	Modern Geometry
MATH-3113	Number Theory
MATH-3313	Modern Algebra I

21 HOURS COMPUTER SCIENCE

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-1313	Software Engineering I: Introduction
CMSC-2133	Object-Oriented Programming
CMSC-2233	Data Structures and Algorithm Analysis
CMSC-2413	Introduction to Assembly Language
CMSC-3443	Computer Organization and Architecture

6 HOURS UPPER DIVISION COMPUTER SCIENCE NOT ALREADY TAKEN

5 HOURS SELECTED FROM ANY COMPUTER SCIENCE COURSES NOT ALREADY TAKEN

B.S.E. DEGREE IN MATHEMATICS EDUCATION

78 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

An OC graduate with a Bachelor of Science in Education degree in Mathematics Education will:

1. Demonstrate a thorough knowledge of the foundational principles of analysis, algebra, and geometry and be able to use standard problem-solving methods in a variety of contexts.
2. Exhibit the ability to adapt to new environments and advances in technology, apply research methodologies, and to learn independently.
3. Work effectively with others, including the ability to describe mathematical problems, solutions, proofs, and logical arguments in a clear, concise manner using both written and oral communication.
4. Possess a working knowledge of sound and current pedagogical techniques for the teaching of mathematics at the secondary level.
5. Demonstrate a thorough knowledge of the liberal arts, living as a person of integrity with an ability to think, act, and communicate from a Christian worldview in all areas of life.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

36 HOURS MATHEMATICS REQUIRED

MATH-1623	Introduction to Discrete Mathematics
MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2314	Calculus III
MATH-2913	Statistical Methods
MATH-3123	Mathematical Modeling and Strategies for Secondary Teachers
MATH-3313	Modern Algebra I
MATH-3513	Linear Algebra
MATH-3813	Modern Geometry
MATH-4113	Probability and Statistics I
PSYC-1113	General Psychology I

3 HOURS UPPER DIVISION MATHEMATICS

3 HOURS COMPUTER SCIENCE REQUIRED

CMSC-1113	Programming I
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3 HOURS ELECTIVES

Take any other computer science course or any upper division mathematics course not already taken.

5 HOURS OTHER COURSES

EDUC-4112	Literacy in the Secondary Content Area
PSYC-2523	Developmental Psychology

3 HOURS METHODS COURSE

EDUC-4463	Methods of Teaching Mathematics in Secondary Schools
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25 SEMESTER HOURS PROFESSIONAL EDUCATION MINOR

EDUC-3121	Orientation to Teacher Education
EDUC-3122	The School in American Culture
EDUC-3131	Classroom Management Strategies I
EDUC-3213	Learning, Instruction, and Assessment
EDUC-3421	Educational Technology
EDUC-3723	Education of the Exceptional Child
EDUC-4013	Human Relations and Cultural Awareness
EDUC-4131	Applied Instructional and Assessment Strategies
EDUC-4231	Critical Issues in Education
EDUC-4331	Classroom Management Strategies II
EDUC-4718	Student Teaching in the Secondary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better OR university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

SCHOOL OF ENGINEERING

ACCREDITATION

The undergraduate computer engineering, electrical engineering, and mechanical engineering degree programs are accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>.

PROGRAM REQUIREMENTS

Beyond the common university requirements for all baccalaureate degrees, the following criteria must be met to graduate with a degree in engineering:

- To declare an engineering major and start engineering coursework, you must either have a math subscore on the ACT of at least 23 (or equivalent) or have successfully completed MATH-1614 with a "C" or better.
- You must maintain a 2.0 minimum major GPA (i.e. the GPA computed excluding core curriculum courses).
- You must complete all departmental assessments.
- Mechanical engineering students must sit for the Fundamentals of Engineering exam prior to graduating.

POLICY FOR STUDENTS TRANSFERRING INTO ENGINEERING PROGRAMS

The School of Engineering welcomes transfer students and will work on an individual basis to match the maximum amount of previous course work with OC graduation requirements without compromising the strength and value of an OC degree in engineering. To assure that transfer credits meet departmental objectives and engineering accreditation standards, the School of Engineering uses the following guidelines and process:

- Students transferring into OC Engineering should submit their official transcripts to the Office of the Registrar for evaluation at least six weeks prior to the beginning of their first semester in the School of Engineering.
- All transfer credit is subject to individual evaluation at the discretion of the engineering programs.
- The programs will generally allow appropriate mathematics and science courses to count towards the required 32 hours of mathematics and science, even if there is not a one-to-one correspondence between courses. Likewise, the departments will generally allow appropriate engineering and computer science courses to count toward the total number of required hours in engineering and computer science.
- Mathematics, science, computer science, and lower level (1000- and 2000-level) engineering science course credits must come from regionally-accredited colleges and universities offering courses designed to provide background for baccalaureate degrees.
- Upper-division (3000- and 4000-level) engineering credits must come from institutions offering ABET-accredited engineering programs.
- Courses completed at international colleges and universities where accreditation is not available will be evaluated on an individual basis.

- Courses from within a technology curriculum do not transfer.
- Transfer credits with grades of less than a "C" will not count toward the engineering degree requirements.

ADMITTANCE INTO THE ELECTRICAL AND COMPUTER ENGINEERING PROGRAM

The upper-division electrical and computer engineering courses (ELEC and CENG courses) at OC require a mastery of foundational material contained in the first two years of the degree plans. Therefore, the Electrical and Computer Engineering program has set forth the following policies for Admittance into Electrical and Computer Engineering studies:

- To be admitted, you must be currently enrolled in or have attained a grade of "C" or better in the required math, science, lower-division computer science and lower-division engineering science coursework for your program.
- The program will communicate to those who meet the requirement before the pre-enrollment period of each spring semester (typically while in ENGR-2613: Electrical Circuit Analysis). Admittance is conditional upon successively completing the in-progress courses with a grade of "C" or better.
- Once admitted, you may take any ELEC or CENG course for which you have met the prerequisites with a grade of "C" or better.

Those that do not meet admittance requirements may petition the program chair and advisor to be allowed to take ELEC or CENG courses. In these cases, the Electrical and Computer Engineering faculty will decide upon a remediation plan for the following year to allow the student to take a subset of ELEC and CENG courses while fulfilling the missing requirements. The student should note that failure to meet admittance requirements during the first two years will require additional time and/or hours to complete the electrical engineering or computer engineering degree. Those who complete the requirements at a later time may petition the program chair and advisor to reconsider admission decisions.

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

AREAS OF STUDY

Computer Engineering (CENG)
Electrical Engineering (ELEC)
Engineering (ENGR)

DEGREES OFFERED

B.S.C.E. Degree in Computer Engineering
B.S.E.E. Degree in Electrical Engineering
B.S.E.E. Degree in Electrical Engineering
With Software Engineering Emphasis

MINORS

Engineering

GRADUATE SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

M.S.E. Master of Science in Engineering

FACULTY

Andrea Ashley, Ph.D., Assistant Professor of Electrical Engineering
Jeffrey Bigelow, Ph.D., Chair, Department of Electrical and Computer Engineering; Professor of Electrical and Computer Engineering
Steven Maher, M.S.E.E., Associate Professor of Electrical and Computer Engineering
Jeremy Poole, M.S., Assistant Professor of Electrical Engineering
David Waldo, Ph.D., Professor of Electrical and Computer Engineering

DEAN

Byron Newberry, Ph.D., Dean, College of Engineering & Computer Science; Chair, Graduate School of Engineering & Computer Science;
Professor of Mechanical Engineering; Associate Provost

LOCATION

Prince Engineering Center

B.S.C.E. DEGREE IN COMPUTER ENGINEERING

96 HOURS

The computer engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

The Electrical and Computer Engineering Program considers its primary constituents to be three-fold: industry, students who value an engineering education at a Christian university, and parents of these students. Working with these constituents, we have set the following Program Educational Objectives.

An OC graduate with an undergraduate degree in Electrical or Computer Engineering will use the talents God has given them to make a difference through:

1. Enjoying a successful career characterized by contributing effectively and adding value to the engineering process, functioning well in the workplace as an integral member of a team, and keeping technically current and adaptive to changes in the workplace.
2. Internalizing a personal faith in God that is exhibited by consistent ethical behavior based on Christian principles, an exemplary work ethic consistent with their Christian worldview, and a stable life that balances career, family, church, and community.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	Electrical and Computer Engineering Mathematics I
ENGR-2123	Electrical and Computer Engineering Mathematics II
MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2314	Calculus III
MATH-3013	Differential Equations

8 HOURS SCIENCE

PHYS-2514	Physics I
PHYS-2614	Physics II

14 HOURS ENGINEERING SCIENCE

ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-1701	The Christian Engineer I
ENGR-2213	Digital Systems Design
ENGR-2613	Electrical Circuit Analysis
ENGR-2701	The Christian Engineer II
ENGR-3701	The Christian Engineer III
ENGR-4701	The Christian Engineer IV

9 HOURS COMPUTER SCIENCE

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-2133	Object-Oriented Programming

23 HOURS COMPUTER ENGINEERING

CENG-3203	Introduction to Microprocessors
CENG-4213	Network Engineering
CENG-4223	Embedded Systems Design
CENG-4233	Advanced Computer Architecture
CENG-4303	HDL Design of Microprocessors
CENG-4732	Systems Design I
CENG-4743	Systems Design II
CENG-4753	Systems Design III

18 HOURS ELECTRICAL ENGINEERING

ELEC-3033	Analog Electronics
ELEC-3313	Electronic Devices
ELEC-3403	Continuous-Time Linear Systems
ELEC-3503	Discrete-Time Linear Systems
ELEC-3523	Digital Signal Processing
ELEC-4523	Software Engineering of Real Time Systems

B.S.E.E. DEGREE IN ELECTRICAL ENGINEERING

96 HOURS

The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

The Electrical and Computer Engineering Program considers its primary constituents to be three-fold: industry, students who value an engineering education at a Christian university, and parents of these students. Working with these constituents, we have set the following Program Educational Objectives.

An OC graduate with an undergraduate degree in Electrical or Computer Engineering will use the talents God has given them to make a difference through:

1. Enjoying a successful career characterized by contributing effectively and adding value to the engineering process, functioning well in the workplace as an integral member of a team, and keeping technically current and adaptive to changes in the workplace.
2. Internalizing a personal faith in God that is exhibited by consistent ethical behavior based on Christian principles, an exemplary work ethic consistent with their Christian worldview, and a stable life that balances career, family, church, and community.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	Electrical and Computer Engineering Mathematics I
ENGR-2123	Electrical and Computer Engineering Mathematics II
MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2314	Calculus III
MATH-3013	Differential Equations

8 HOURS SCIENCE

PHYS-2514	Physics I
PHYS-2614	Physics II

14 HOURS ENGINEERING SCIENCE

ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-1701	The Christian Engineer I
ENGR-2213	Digital Systems Design
ENGR-2613	Electrical Circuit Analysis
ENGR-2701	The Christian Engineer II
ENGR-3701	The Christian Engineer III
ENGR-4701	The Christian Engineer IV

6 HOURS COMPUTER SCIENCE

CMSC-1113	Programming I
CMSC-1123	Programming II

6 HOURS COMPUTER ENGINEERING

CENG-3203	Introduction to Microprocessors
CENG-4223	Embedded Systems Design

35 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3313	Electronic Devices
ELEC-3403	Continuous-Time Linear Systems
ELEC-3503	Discrete-Time Linear Systems
ELEC-3523	Digital Signal Processing
ELEC-3613	Electromagnetic Fields
ELEC-4423	Controls Systems
ELEC-4433	Mechatronic System Design
ELEC-4523	Software Engineering of Real Time Systems
ELEC-4732	Systems Design I
ELEC-4743	Systems Design II
ELEC-4753	Systems Design III

3 HOURS MECHANICAL ENGINEERING

MECH-4003	Robotics and Automation
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B.S.E.E. DEGREE IN ELECTRICAL ENGINEERING WITH SOFTWARE ENGINEERING EMPHASIS

96 HOURS

The electrical engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

The Electrical and Computer Engineering Program considers its primary constituents to be three-fold: industry, students who value an engineering education at a Christian university, and parents of these students. Working with these constituents, we have set the following Program Educational Objectives.

An OC graduate with an undergraduate degree in Electrical or Computer Engineering will use the talents God has given them to make a difference through:

1. Enjoying a successful career characterized by contributing effectively and adding value to the engineering process, functioning well in the workplace as an integral member of a team, and keeping technically current and adaptive to changes in the workplace.
2. Internalizing a personal faith in God that is exhibited by consistent ethical behavior based on Christian principles, an exemplary work ethic consistent with their Christian worldview, and a stable life that balances career, family, church, and community.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS MATHEMATICS

ENGR-1113 Engineering Mathematics
ENGR-2113 Electrical and Computer Engineering Mathematics I
ENGR-2123 Electrical and Computer Engineering Mathematics II
MATH-2114 Calculus I with Analytical Geometry
MATH-2214 Calculus II with Analytical Geometry
MATH-2314 Calculus III
MATH-3013 Differential Equations

8 HOURS SCIENCE

PHYS-2514 Physics I
PHYS-2614 Physics II

14 HOURS ENGINEERING SCIENCE

ENGR-1122 Engineering Computing
ENGR-1242 Engineering Fundamental
ENGR-1701 The Christian Engineer I
ENGR-2213 Digital Design
ENGR-2614 Electrical Circuit Analysis
ENGR-2701 The Christian Engineer II
ENGR-3701 The Christian Engineer III
ENGR-4701 The Christian Engineer IV

9 HOURS COMPUTER SCIENCE

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-2133 Object-Oriented Programming

9 HOURS COMPUTER ENGINEERING

CENG-3203 Introduction to Microprocessors
CENG-4113 Software and Network Engineering
CENG-4223 Embedded Systems Design

32 HOURS ELECTRICAL ENGINEERING

ELEC-3033 Analog Electronics
ELEC-3313 Electronic Devices
ELEC-3403 Continuous-Time Linear Systems
ELEC-3503 Discrete-Time Linear Systems
ELEC-3523 Digital Signal Processing
ELEC-3613 Electromagnetic Fields
ELEC-4523 Software Engineering of Real Time Systems
ELEC-4533 Advanced Concepts in Software Engineering
ELEC-4732 Systems Design I
ELEC-4743 Systems Design II
ELEC-4753 Systems Design III

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

DEPARTMENT OF MECHANICAL ENGINEERING

AREAS OF STUDY

Engineering (ENGR)

Mechanical Engineering (MECH)

DEGREES OFFERED

B.S.M.E. Degree in Mechanical Engineering

MINORS

Engineering

GRADUATE SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

M.S.E. Master of Science in Engineering

FACULTY

Brad Copeland, M.S.E, Instructor of Mechanical Engineering

Byron Newberry, Ph.D., Dean, College and School of Engineering and Computer Science; Chair, Graduate School of Engineering and Computer Science;
Professor of Mechanical Engineering; Associate Provost

Kevin Plumlee, Ph.D., Chair, Department of Mechanical Engineering; Associate Professor of Mechanical Engineering

Benjamin Reish, Ph.D., Assistant Professor of Mechanical Engineering

DEAN

Byron Newberry, Ph.D., Dean, College of Engineering & Computer Science; Chair, Graduate School of Engineering & Computer Science;
Professor of Mechanical Engineering; Associate Provost

LOCATION

Prince Engineering Center

B.S.M.E. DEGREE IN MECHANICAL ENGINEERING

96-97 HOURS

The mechanical engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

An OC graduate with a Bachelor of Science in Mechanical Engineering degree will:

1. Adapt and grow in both technical and professional excellence throughout their career, exhibiting continuous learning and advancement.
2. Earn increasing levels of leadership and technical responsibility in the workplace, exhibiting the highest standard of ethical and professional integrity.
3. Embody the Christian worldview and pursue a balanced life of scholarship, leadership, and service.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

18 HOURS MATHEMATICS

ENGR-3023 Engineering Probability and Statistics
MATH-2114 Calculus I with Analytical Geometry
MATH-2214 Calculus II with Analytical Geometry
MATH-2314 Calculus III
MATH-3013 Differential Equations

11 HOURS SCIENCE

PHYS-2514 Physics I
PHYS-2614 Physics II
Any 3-hour Natural Science course (Recommended: CHEM-1313: General Chemistry for Engineers)

2-3 HOURS PROGRAMMING CHOSEN FROM

CMSC-1113 Programming I
ENGR-1132 Procedural Programming

18 HOURS ENGINEERING SCIENCE

ENGR-1122 Engineering Computing
ENGR-1251 Introduction to Solid Modeling
ENGR-2313 Statics
ENGR-2433 Thermodynamics I
ENGR-2523 Dynamics
ENGR-2533 Strengths of Materials
MECH-2623 Mechanical Engineering Circuits

27 HOURS MECHANICAL ENGINEERING

MECH-3403 Engineering Materials
MECH-3443 Fluid Mechanics
MECH-3611 Manufacturing Processes
MECH-4133 Dynamic Systems and Controls
MECH-4213 Machine Design
MECH-4243 Heat Transfer
MECH-4523 Finite Element Analysis
MECH-4732 Systems Design I
MECH-4743 Systems Design II
MECH-4753 Systems Design III

8 HOURS EXPERIENTIAL LABS

MECH-1001 Mechanical Engineering Experience 1
MECH-1011 Mechanical Engineering Experience 2
MECH-2001 Mechanical Engineering Experience 3
MECH-2011 Mechanical Engineering Experience 4
MECH-3001 Mechanical Engineering Experience 5
MECH-3011 Mechanical Engineering Experience 6
MECH-4001 Mechanical Engineering Experience 7
MECH-4011 Mechanical Engineering Experience 8

12 HOURS TECHNICAL ELECTIVES CHOSEN FROM

ELEC-3303 Analog Electronics
MECH-4003 Robotics and Automation
MECH-4153 Principles of Additive Manufacturing
MECH-4313 Aerodynamic Design
MECH-4533 Vibrations Theory and Application
MECH-4433 Mechatronic System Design
*Specialty topics courses as available

Note: Certain upper-division electrical engineering courses of 5000-level graduate engineering courses may be substituted for the MECH electives with permission of the instructor and the student's advisor.

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

GRADUATE SCHOOL OF ENGINEERING & COMPUTER SCIENCE

AREAS OF STUDY

Computer Engineering (CENG)
Computer Science (CMSC)
Electrical Engineering (ELEC)
Engineering (ENGR)
Mathematics (MATH)
Mechanical Engineering (MECH)

DUAL DEGREES OFFERED

M.S.C.S. Degree in Computer Science with Artificial Intelligence Emphasis
B.S. Degree in Computer Science
With a Business Emphasis
With a Cybersecurity Emphasis
With a Gaming and Animation Emphasis
M.S.C.S. Degree in Computer Science with Cybersecurity Emphasis
B.S. Degree in Computer Science
With a Business Emphasis
With a Cybersecurity Emphasis
With a Gaming and Animation Emphasis
M.S.C.S. Degree in Computer Science with Data Science Emphasis
With a Computer Science Emphasis With a Business Emphasis
With a Cybersecurity Emphasis
With a Gaming and Animation Emphasis
M.S.C.S. Degree in Computer Science with Software Engineering Emphasis
With a Computer Science Emphasis
With a Business Emphasis
With a Cybersecurity Emphasis
With a Gaming and Animation Emphasis
M.S.E. Degree in Engineering
B.S.C.E. Degree in Computer Engineering
B.S.E.E. Degree in Electrical Engineering
With Software Engineering Emphasis
B.S.M.E. Degree in Mechanical Engineering

FACULTY

Jeffrey Bigelow, Ph.D., Chair, Electrical and Computer Engineering Program; Professor of Electrical and Computer Engineering
Jennifer Bryan, Ph.D., Chair, Mathematics Program; Professor of Mathematics
Curtis Coleman, M.S., Assistant Professor of Computer Science
Fang Li, Ph.D. candidate, Assistant Professor of Computer Science
Steven Maher, M.S.E.E., Associate Professor of Electrical and Computer Engineering
Byron Newberry, Ph.D., Dean, College of Engineering & Computer Science;
Professor of Mechanical Engineering
Robert Nix, Ph.D., Associate Professor of Computer Science
David North, M.S., Chair, Computer Science Program; Associate Professor of Computer Science
Kevin Plumlee, Ph.D., Chair, Mechanical Engineering Program;
Associate Professor of Mechanical Engineering
Pat Smith, M.S., Associate Professor of Computer Science
David Waldo, Ph.D., Professor of Electrical and Computer Engineering

DEAN

Byron Newberry, Ph.D., Dean, College of Engineering &
Computer Science; Chair, Graduate School of Engineering &
Computer Science; Professor of Mechanical Engineering;
Associate Provost

LOCATION

Prince Engineering Center

ADMISSION REQUIREMENTS

To be accepted into the dual bachelor/master degree programs, an applicant must:

Be a current student and admitted to his/her undergraduate program of study,

- Apply prior to taking 90 hours in the undergraduate studies (not including prior learning credits, like AP credits etc.),
- Have a major GPA of 3.5 and a cumulative GPA of 3.25, and
- Be accepted in the graduate program before taking any 5000-level course.

Once the full requirements of both degrees are met, the student will be awarded both a bachelor and master degree in their programs. Note: It is possible for a student to change back to an undergraduate program at any time and receive a degree under that program if the requirements have been met.

STUDENT FINANCIAL STATUS

A student in a dual undergraduate/graduate degree program is considered a graduate student when they have completed eight full-time (12 hours) semesters, including full-time summer semesters, of undergraduate studies. These full-time semesters may be completed at OC or another institution. The change to graduate student status will impact a student's use of scholarships, financial aid, and tuition rates.

Note: For more information concerning graduate degrees, refer to the graduate catalog at www.oc.edu/registrar.

B.S. IN COMPUTER SCIENCE (MULTIPLE EMPHASES) & M.S.C.S. IN COMPUTER SCIENCE (MULTIPLE EMPHASES) -72-73 UG HOURS, 30 GR HOURS

For program description, learning outcomes, and curriculum requirements for the B.S. degrees in Computer Science (multiple emphases), see pages 68-71.

The Master of Science in Computer Science (M.S.C.S.) degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in computer science. **The exception is dual degree students who have applied and been approved to complete their computer science undergraduate and computer science graduate degree coursework at the same time.**

A graduate of the M.S.C.S. degree will:

1. Know and be able to demonstrate computer science principles in the use and development of software systems. These include abstraction, binding, encapsulation, algorithms, data information and knowledge, reuse, efficiency, creativity and innovation, and trade-offs and consequences.
2. Posses an advanced understanding of core computer science knowledge. This includes programming languages, data structures, algorithms, computer architecture, operating systems, databases, and internet technologies.
3. Be able to use advanced computer science skills in the use and development of software systems. These include problem solving, programming, software engineering and management processes, communication, team work, and learning.
4. Be able to apply a Christian worldview in the practice of computer science. This includes ethical decision making, using technology for good, using technology to serve others, and using their abilities in a vocation.
5. Be prepared for a career and/or vocation in computer science.

For more information about the M.S.C.S. degree, see the Graduate Academic Catalog.

Students must complete a minimum of 122 hours including the major and core to complete the B.S. degree. Elective hours may be needed to reach 122 hours.

B.S. Degree in Computer Science Requirements

Undergraduate students have multiple emphasis areas in Computer Science from which to choose. For program descriptions, learning outcomes, and curriculum requirements for each of the B.S. degree in Computer Science emphases, students should refer to the following pages:

- Computer Science - page 68.
- Computer Science with an Emphasis in Business - page 69.
- Computer Science with an Emphasis in Cybersecurity - page 70.
- Computer Science with an Emphasis in Gaming and Animation - page 71.

Up to nine hours of undergraduate computer science requirements should be satisfied by graduate computer science coursework.

M.S.C.S. Degree in Computer Science with an Emphasis in Artificial Intelligence Requirements

12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003 Foundations of Technology Ethics and Values
CMSC-5343 Algorithm Analysis
CMSC-5613 Object-Oriented Software Engineering
CMSC-5713 Artificial Intelligence

6 HOURS ELECTIVES CHOSEN FROM

Take six hours of upper-division CMSC coursework not already taken.

12 HOURS ARTIFICIAL INTELLIGENCE

CMSC-5723 Machine Learning
CMSC-5753 Intelligent Systems
CMSC-5763 Artificial Intelligence Project I
CMSC-5773 Artificial Intelligence Project II

M.S.C.S. Degree in Computer Science with an Emphasis in Cybersecurity Requirements

12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003 Foundations of Technology Ethics and Values
CMSC-5343 Algorithm Analysis
CMSC-5613 Object-Oriented Software Engineering
CMSC-5713 Artificial Intelligence

6 HOURS ELECTIVES CHOSEN FROM

Take six hours of upper-division CMSC coursework not already taken.

12 HOURS CYBERSECURITY

CMSC-5653 Cloud Architecture and Security
CMSC-5663 Network Forensics
CMSC-5673 Computer Systems Risk Management
CMSC-5683 Offensive Security and Penetration Testing

M.S.C.S. Degree in Computer Science with an Emphasis in Data Science Requirements

12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003 Foundations of Technology Ethics and Values
CMSC-5343 Algorithm Analysis
CMSC-5613 Object-Oriented Software Engineering
CMSC-5713 Artificial Intelligence

6 HOURS ELECTIVES CHOSEN FROM

Take six hours of upper-division CMSC coursework not already taken.

12 HOURS DATA SCIENCE

CMSC-5353 Big Data Management
CMSC-5363 Data Science Project I
CMSC-5373 Data Science Project II
CMSC-5723 Machine Learning

M.S.C.S. Degree in Computer Science with an Emphasis in Software Engineering Requirements

12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003 Foundations of Technology Ethics and Values
CMSC-5343 Algorithm Analysis
CMSC-5613 Object-Oriented Software Engineering
CMSC-5713 Artificial Intelligence

6 HOURS ELECTIVES CHOSEN FROM

Take six hours of upper-division CMSC coursework not already taken.

12 HOURS SOFTWARE ENGINEERING

CMSC-5533 Software System Architecture
CMSC-5633 Patterns of Object-Oriented Systems
CMSC-5733 Software Engineering Projects I
CMSC-5743 Software Engineering Projects II

B.S.C.E., B.S.E.E., AND B.S.M.E. IN ENGINEERING & M.S.E. IN ENGINEERING

88-90 UG HOURS, 30 GR HOURS

For program descriptions, learning outcomes, and curriculum requirements for the B.S.C.E. degree in Computer Engineering (multiple emphases), the B.S.E.E. degree in Electrical Engineering (multiple emphases), and the B.S.M.E. degree in Mechanical Engineering, see pages 78-81 and page 83.

A graduate of the Master of Science in Engineering (M.S.E.) degree will be able to:

1. Demonstrate the ability to critically examine and manage contemporary challenges of the engineering profession including professional ethics, diversity, and globalization.
 - a. Demonstrate ethical awareness and decision making relative to contemporary engineering practice.
 - b. Demonstrate awareness and respect for diversity and global issues.
2. Demonstrate that they are broadly equipped to both contribute to and lead multidisciplinary engineering projects.
 - a. Demonstrate appropriate solution strategies.
 - b. Demonstrate the ability to perform mature technical assessment and evaluation.
3. Demonstrate scholarship with depth beyond the B.S. degree within the student's chosen field of specialization.
 - a. Demonstrate the ability to perform individual research.
 - b. Demonstrate the ability to communicate in appropriate scholarly forms for the discipline For

more information about the M.S.E. degree, see the Graduate Academic Catalog.

Students must complete a minimum of 122 hours including the major and core to complete the B.S.C.E., B.S.E.E., or B.S.M.E. degree. Elective hours may be needed to reach 122 hours.

B.S.C.E. Degree in Computer Engineering Requirements

Undergraduate students have multiple emphasis areas in Computer Engineering from which to choose. For program descriptions, learning outcomes, and curriculum requirements for each of the B.S.C.E. degree in Computer Engineering emphases, students should refer to the following pages:

- Computer Engineering - page 64.

Up to six hours of undergraduate engineering requirements should be satisfied by graduate engineering coursework.

B.S.E.E. Degree in Electrical Engineering Requirements

Undergraduate students have multiple emphasis areas in Electrical Engineering from which to choose. For program descriptions, learning outcomes, and curriculum requirements for each of the B.S.E.E. degree in Electrical Engineering emphases, students should refer to the following pages:

- Electrical Engineering - page 65.
- Electrical Engineering with Software Engineering - page 66.

Up to six hours of undergraduate engineering requirements should be satisfied by graduate engineering coursework.

B.S.M.E. Degree in Mechanical Engineering Requirements

For program description, learning outcomes, and curriculum requirements for each of the B.S.M.E. degree in Mechanical Engineering, see page 68.

Up to six hours of undergraduate engineering requirements should be satisfied by graduate engineering coursework.

M.S.E. Degree in Engineering Requirements

15 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003 Foundations of Technology Ethics and Values
ENGR-5203 Systems Engineering
ENGR-5213 Tools of Operation Research
ENGR-5223 Systems Engineering Management
ENGR-5323 Failure Analysis of Engineering Systems

15 HOURS OF GRADUATE LEVEL ENGINEERING ELECTIVES

Take 15 hours CENG, ELEC, ENGR, MATH or MECH not already taken.

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE MINORS

DEPARTMENT OF COMPUTER SCIENCE

COMPUTER SCIENCE MINOR - 18 HOURS

12 hours required

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-2133 Object Oriented Programming
CMSC-2233 Data Structures and Algorithm Analysis

6 hours chosen from Computer Science courses, including at least 3 hours upper- division

SOFTWARE ENGINEERING MINOR - 18 HOURS

CMSC-1113 Programming I
CMSC-1123 Programming II
CMSC-1313 Software Engineering I - Introduction
CMSC-2213 Internet Application Development
CMSC-2313 Software Engineering II - Practices
CMSC-3313 Software Engineering III -Ethics

DEPARTMENT OF MATHEMATICS

MATHEMATICS MINOR - 18 HOURS

18 hours Mathematics, including at least 6 hours upper-division

SCHOOL OF ENGINEERING

ENGINEERING MINOR - 18-20HOURS

4 hours required

MATH-2114 Calculus I with Analytical Geometry

6 hours chosen from

ENGR-2313 Statics
ENGR-2433 Thermodynamics
ENGR-2533 Strength of Materials
ENGR-2544 Introduction to Digital Systems
ENGR-2614 Electrical Circuit Analysis

8 additional hours chosen from Engineering Science course

COLLEGE OF LIBERAL ARTS

DEPARTMENT OF COMMUNICATION

AREAS OF STUDY

Communication (COMM)

DEGREES OFFERED

- B.A. Degree in Interdisciplinary Studies
- B.S. Degree in Communication
- B.S. Degree in Interdisciplinary Studies

MINORS

Communication Studies
International Studies
Leadership
Military Science
Social Media

FACULTY

David Lowry, Ph.D., Professor of Communication
John Osborne, M.B.A., Director, International Programs; Assistant Professor of Communication
Philip Patterson, Ph.D., Distinguished Professor of Communication
Brian Simmons, Ph.D., Dean, College of Liberal Arts; Chair, Department of Communication, Professor of Communication
Josh Watson, Ph.D., Associate Professor of Communication

DEAN

Brian Simmons, Ph.D., Dean, College of Liberal Arts; Professor of Communication

LOCATION

Garvey Center for Liberal Arts

B.A. DEGREE IN INTERDISCIPLINARY STUDIES - 60 HOURS PLUS 6 HOURS OF SAME FOREIGN LANGUAGE

This degree program is designed for the highly motivated student who is seeking insight in several areas of knowledge rather than a deep insight into only one. An interdisciplinary curriculum, including such areas as the social, religious, political, and scientific, will aid the student in understanding contemporary American culture and their place in it. The degree program also serves the student who wishes to craft a program of studies from existing courses and majors in order to lay a foundation for a specific career or professional goal not addressed by other OC majors. For example, a student interested in operating a music production studio may propose an academic plan combining courses from the business, communication, and music programs.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

60 HOURS, 39 OF WHICH MUST BE 3000/4000 LEVEL COURSES

COURSES ARE TO BE DIVIDED AMONG THREE AREAS

At least one area must be in the humanities, such as Art, Bible, Communication, History, English, or Music.

MINIMUM OF 9 HOURS OF 3000/4000 LEVEL CLASSES IN EACH AREA

6 HOURS IN THE SAME FOREIGN LANGUAGE

A STUDENT MUST DECLARE A MAJOR IN INTERDISCIPLINARY STUDIES BEFORE COMPLETING 96 HOURS.

THE STUDENT MUST MEET THE MINIMUM TOTAL HOURS OF 122 IN ORDER TO GRADUATE.

B.S. DEGREE IN INTERDISCIPLINARY STUDIES

60 HOURS

This degree program is designed for the highly motivated student who is seeking insight in several areas of knowledge rather than a deep insight into only one. An interdisciplinary curriculum, including such areas as the social, religious, political, and scientific, will aid the student in understanding contemporary American culture and their place in it. The degree program also serves the student who wishes to craft a program of studies from existing courses and majors in order to lay a foundation for a specific career or professional goal not addressed by other OC majors. For example, a student interested in operating a music production studio may propose an academic plan combining courses from the business, communication, and music programs.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

60 HOURS, 39 OF WHICH MUST BE 3000/4000 LEVEL COURSES

COURSES ARE TO BE DIVIDED AMONG THREE AREAS

At least one area must be in the humanities, such as Art, Bible, Communication, History, English, or Music.

MINIMUM OF 9 HOURS OF 3000/4000 LEVEL CLASSES IN EACH AREA

A STUDENT MUST DECLARE A MAJOR IN INTERDISCIPLINARY STUDIES BEFORE COMPLETING 96 HOURS.

THE STUDENT MUST MEET THE MINIMUM TOTAL HOURS OF 122 IN ORDER TO GRADUATE.

B.S. DEGREE IN COMMUNICATION

43 HOURS, MINOR REQUIRED

An OC graduate with a Bachelor of Science degree in Communication will be able to:

1. Employ Communication theories, perspectives, principles and concepts.
2. Create messages appropriate to the audience, purpose and context.
3. Critically analyze messages.
4. Apply ethical communication principles and practices.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

25 HOURS COMMUNICATION DEPARTMENT FOUNDATION

COMM-2003	Effective Leadership
COMM-2043	Managing Social Media
COMM-2513	Communication Theory
COMM-3763	Communication Research and Analytics
COMM-4113	Persuasion and Advocacy
COMM-4523	Conflict Resolution and Peacemaking
COMM-4713	Communication Law
COMM-4733	Communication Ethics
COMM-4631	Senior Communication Seminar

COMMUNICATION DEPARTMENT ELECTIVES, 18 HOURS

Take 18 hours from the Department of Communication, that you haven't already taken, except COMM-1213.

COLLEGE OF LIBERAL ARTS

DEPARTMENT OF HISTORY, POLITICAL SCIENCE & CRIMINAL JUSTICE

AREAS OF STUDY

Criminal Justice (CRMJ)
History (HIST)
Political Science (POLS)

DEGREES OFFERED

B.S. Degree in Criminal Justice
B.A. Degree in History
B.S. Degree in History/Pre-Law
B.S. Degree in Political Science
B.S.E. Degree in Social Studies Education

MINORS

Pre-Law

FACULTY

Sid Brown, Ph.D., Professor of Criminal Justice
Matt McCook, Ph.D., Chair, Department of History, Political Science, and Criminal Justice; Professor of History
Trey Orndorff, Ph.D., Professor of Political Science
Emily Smith, Ph.D., Professor of History

DEAN

Brian Simmons, Ph.D., Dean, College of Liberal Arts; Professor of Communication

LOCATION

Davisson American Heritage Building

B.S. DEGREE IN CRIMINAL JUSTICE

57 HOURS, MINOR REQUIRED

The degree provides an academic program for those students interested in learning about the institutions, laws, and public policies of local, national, and global governance. It encompasses a broad theoretical and substantive survey of governance institutions, laws, and public policies. Students will be prepared for entry-level public service careers, law school, and many graduate programs in public policy, political science, public administration, and political management.

An OC graduate with a Bachelor of Science degree in Criminal Justice will:

1. Identify ways in which oppression, privilege, discrimination, and social and economic disadvantage contribute to inequalities and injustices within criminal justice systems.
2. Demonstrate an understanding of the origins of criminal behavior, society's response to crime, and the consequences of crime to our society, utilizing multiple perspectives.
3. Articulate ethical implications of decision-making in a professional capacity.
4. Develop and demonstrate sufficient critical self-awareness to understand the influence of personal biases and values when interacting with diverse groups.
5. Demonstrate an understanding of qualitative and quantitative research methods to collect and analyze data, including basic introductory statistical concepts.
6. Demonstrate an understanding of selected case law and procedures outlined by the United States Constitution and Bill of Rights for criminal procedure.
7. Demonstrate an understanding of the adult and juvenile justice systems as they relate to corrections and alternative corrections at various levels of government.
8. Demonstrate an understanding of the role of community policing, as well as basic police procedures.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

33 HOURS FOUNDATION

CRMJ-1003 Introduction to Criminal Justice
CRMJ-2013 Theories of Criminal Behavior
CRMJ-2023 Policing in America
CRMJ-2033 American Corrections
CRMJ-3013 Cultural Diversity in Criminal Justice
CRMJ-3033 Juvenile Justice and Delinquency
CRMJ-4013 Criminal Procedure
CRMJ-4023 Ethics in Criminal Justice
CRMJ-4033 Introduction to Criminal Investigation
CRMJ-4113 Community Oriented Policing
CRMJ-4053 Victimology

6 HOURS ELECTIVES CHOSEN FROM

COMM-3333 Team Communication and Leadership
CRMJ-2003 Deviance and Social Justice
CRMJ-3003 Comparative Justice Systems
CRMJ-3023 Criminal Justice Internship
CRMJ-3633 Introduction to Cybersecurity
CRMJ-4003 Contemporary Issues in Criminal Justice
CRMJ-4043 Family Policy
PSYC-3913 Psychology of Crime
SOCI-3113 Introduction to Psychological Statistics
Or other course approved by Criminal Justice faculty

3 HOURS PSYCHOLOGY

PSYC-1113 General Psychology I

3 HOURS LANGUAGE & LITERATURE

ENGL-2213 Perspectives in Literature

3 HOURS HUMANITIES CHOSEN FROM

ARTS-2013 Survey of Visual Culture
ARTS-2423 History of Photography and Motion Pictures
MUSC-2013 Music Appreciation
MUSC-2023 Jazz Appreciation
MUSC-3213 Perspectives in World Music
ABRD-2903 Aesthetics

3 HOURS CIVILIZATION CHOSEN FROM

HIST-2823 World Civilization to 1500
HIST-2833 World Civilization Since 1500
GEOG-2213 World Regional Geography
ABRD-2903 Studies in European Civilization

3 HOURS STATISTICAL ANALYSIS

POLS-2513 Data Analysis

3 HOURS CAPSTONE

CRMJ-4103 Capstone: Managing Criminal Justice Organizations

B.A. DEGREE IN HISTORY - 51 HOURS, MINOR REQUIRED PLUS 6 HOURS OF SAME FOREIGN LANGUAGE

An OC graduate with a Bachelor of Arts degree in History will:

1. Demonstrate knowledge of the fundamentals of American, European, and public history.
2. Demonstrate an understanding of the nature of history and knowledge of basic research techniques, the use of documents, and the handling of evidence, as part of a Christian worldview.
3. Demonstrate analytical and critical thinking through effective communication of independent research.
4. Be able to apply Christian ethics to life situations.
5. Have an increased understanding of people of different cultures, times, and places.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

6 HOURS WORLD CIVILIZATION

HIST-2823 World Civilization to 1500
HIST-2833 World Civilization Since 1500

6 HOURS AMERICAN HISTORY

HIST-2213 History of the U.S. to 1877
HIST-2223 History of the U.S. Since 1877

9 HOURS RESEARCH

Must be passed with a grade of "C" or better

HIST-2123 Introduction to Historical Research
HIST-2813 Data Analysis
HIST-4733 Historiography

3 HOURS PUBLIC HISTORY

HIST-2723 Introduction to Public History

15 HOURS 3000/4000 LEVEL CLASSES

3 HOURS HISTORY ELECTIVES

6 HOURS IN THE SAME FOREIGN LANGUAGE

3 HOURS PSYCHOLOGY

PSYC-1113 General Psychology I

3 HOURS LANGUAGE & LITERATURE

ENGL-2213 Perspectives in Literature

3 HOURS HUMANITIES CHOSEN FROM

ARTS-2013 Survey of Visual Culture
ARTS-2423 History of Photography and Motion Pictures
MUSC-2013 Music Appreciation
MUSC-2023 Jazz Appreciation
MUSC-3213 Perspectives in World Music
ABRD-2903 Aesthetics

B.S. DEGREE IN HISTORY/PRE-LAW - 72 HOURS

The B.S. in History/Pre-Law combines work in history, political science, economics, and literature to prepare the student for a variety of career opportunities and graduate studies. This degree is designed as preparation for careers in public administration, civil service, or foreign service, typically after taking an appropriate graduate degree. It also provides a good background for graduate work in the areas studied and is an excellent preparation for law school.

An OC graduate with a Bachelor of Science degree in History/Pre-Law will:

1. Demonstrate knowledge of the fundamentals of American and European history.
2. Demonstrate an understanding of the nature of history and knowledge of basic research techniques, the use of documents, and the handling of evidence as part of a Christian worldview.
3. Demonstrate analytical and critical thinking through effective communication of independent research.
4. Be able to apply Christian ethics to life situations.
5. Be familiar with law school pedagogy and coursework.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

6 HOURS WORLD CIVILIZATION

HIST-2823 World Civilization to 1500
HIST-2833 World Civilization Since 1500

6 HOURS AMERICAN HISTORY

HIST-2213 History of the U.S. to 1877
HIST-2223 History of the U.S. Since 1877

9 HOURS RESEARCH

Must be passed with a grade of "C" or better
HIST-2123 Introduction to Historical Research
HIST-2813 Data Analysis
HIST-4733 Historiography

15 HOURS 3000/4000 LEVEL CLASSES

It is recommended that these include both American and European history courses.

3 HOURS ELECTIVES - 2000 LEVEL OR HIGHER

6 HOURS CHOSEN FROM

ACCT-2113 Accounting Principles I
BUSA-4213 Business Law
ECON-2113 Macroeconomics
ECON-2213 Microeconomics

3 HOURS PSYCHOLOGY

PSYC-1113 General Psychology I

3 HOURS LANGUAGE & LITERATURE

ENGL-2213 Perspectives in Literature

3 HOURS HUMANITIES CHOSEN FROM

ARTS-2013 Survey of Visual Culture
ARTS-2423 History of Photography and Motion Pictures
MUSC-2013 Music Appreciation
MUSC-2023 Jazz Appreciation
MUSC-3213 Perspectives in World Music
ABRD-2903 Aesthetics

18 HOURS - OPTION A OR OPTION B

OPTION A POLITICAL SCIENCE EMPHASIS

6 HOURS POLITICAL SCIENCE REQUIRED

POLS-2113 American Politics
POLS-4113 Constitutional Law

9 HOURS POLITICAL SCIENCE ELECTIVES - 2000 LEVEL OR HIGHER

3 HOURS POLITICAL SCIENCE CHOSEN FROM

POLS-3413 The Presidency and Congress
POLS-3613 Political Parties and Interest Groups
POLS-3713 State and Local Politics

OPTION B LITERATURE EMPHASIS

6 HOURS POLITICAL SCIENCE REQUIRED

POLS-2113 American Politics
POLS-4113 Constitutional Law

3 HOURS POLITICAL SCIENCE ELECTIVES - 2000 LEVEL OR HIGHER

9 HOURS LITERATURE - COURSES ABOVE ENGL-2213

B.S. DEGREE IN POLITICAL SCIENCE

57 HOURS, MINOR REQUIRED

The degree provides an academic program for those students interested in learning about the institutions, laws, and public policies of local, national, and global governance. It encompasses a broad theoretical and substantive survey of governance institutions, laws, and public policies. Students will be prepared for entry-level public service careers, law school, and many graduate programs in public policy, political science, public administration, and political management.

An OC graduate with a Bachelor of Science degree in Political Science will:

1. Demonstrate knowledge of the fundamentals of American and global political systems and actions.
2. Demonstrate an understanding of the nature of political science and knowledge of basic social science research techniques a part of a Christian worldview.
3. Demonstrate analytical and critical thinking through effective written and oral communication.
4. Be able to apply Christian ethics to life situations.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

9 HOURS SURVEY

POLS-2113 American Politics
POLS-2213 Introduction to Global Politics
POLS-2413 Comparative Politics

3 HOURS LEGAL STUDIES

POLS-4113 Constitutional Law

3 HOURS 3000/4000 LEVEL GLOBAL OR COMPARATIVE POLITICS CLASSES

6 HOURS 3000/4000 LEVEL AMERICAN POLITICS CLASSES

6 HOURS RESEARCH

Must be passed with a grade of "C" or better

POLS-2513 Data Analysis
POLS-4713 Political Science Seminar

18 HOURS POLITICAL SCIENCE ELECTIVES OR 15 HOURS POLITICAL SCIENCE ELECTIVE AND 3 HOURS MACROECONOMICS

May include an internship.

3 HOURS PSYCHOLOGY

PSYC-1113 General Psychology I

3 HOURS LANGUAGE & LITERATURE

ENGL-2213 Perspectives in Literature

3 HOURS HUMANITIES CHOSEN FROM

ARTS-2013 Survey of Visual Culture
ARTS-2423 History of Photography and Motion Pictures
MUSC-2013 Music Appreciation
MUSC-2023 Jazz Appreciation
MUSC-3213 Perspectives in World Music
ABRD-2903 Aesthetics

3 HOURS CIVILIZATION CHOSEN FROM

HIST-2823 World Civilization to 1500
HIST-2833 World Civilization Since 1500
GEOG-2213 World Regional Geography
ABRD-2903 Studies in European Civilization

B.S.E. DEGREE IN SOCIAL STUDIES EDUCATION

93 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

This degree is designed as preparation for those who plan to obtain a certificate to teach social studies in grades 6-12. The state of Oklahoma requires teacher education to be competency based; thus, this degree aims at providing students with the knowledge and skills to achieve competency in the various social studies. The program requires a minimum total of 48 hours distributed among all of the following fields: American history, world history, historical research, Oklahoma history, government, economics, and geography. Historical research is not a teaching area, but six hours are required for the degree.

An OC graduate with a Bachelor of Science degree in Social Studies Education will:

1. Have a broad knowledge of the fundamentals of social studies, including American and world history, political science, economics, and geography.
2. Demonstrate an understanding of the nature of history and knowledge of basic research techniques, the use of documents, and the handling of evidence as part of a Christian worldview.
3. Demonstrate analytical and critical thinking through effective communication of independent research.
4. Understand and employ principles of effective teaching.
5. See teaching as an opportunity for Christian service as well as a vocation.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

6 HOURS AMERICAN HISTORY REQUIRED

HIST-2213 History of the U.S. to 1877
HIST-2223 History of the U.S. Since 1877

6 HOURS WORLD CIVILIZATION

HIST-2823 World Civilization to 1500
HIST-2833 World Civilization Since 1500

6 HOURS RESEARCH COURSES

Both courses must be passed with a grade of "C" or better

HIST-2123 Introduction to Historical Research
HIST-4733 Historiography

3 HOURS U.S. HISTORY ELECTIVE

6 HOURS UPPER DIVISION AMERICAN HISTORY COURSES

6 HOURS UPPER DIVISION WORLD HISTORY COURSES

3 HOURS OKLAHOMA HISTORY

HIST-2313 Oklahoma History

3 HOURS GEOGRAPHY

GEOG-2213 World Regional Geography

3 HOURS ECONOMICS

ECON-2113 Macroeconomic Principles

3 HOURS PSYCHOLOGY

PSYC-1113 General Psychology I

3 HOURS LANGUAGE & LITERATURE

ENGL-2213 Perspectives in Literature

3 HOURS HUMANITIES CHOSEN FROM

ARTS-2013 Survey of Visual Culture
ARTS-2423 History of Photography and Motion Pictures
MUSC-2013 Music Appreciation
MUSC-2023 Jazz Appreciation
MUSC-3213 Perspectives in World Music
ABRD-2903 Aesthetics

3 HOURS CIVILIZATION CHOSEN FROM

HIST-2823 World Civilization to 1500
HIST-2833 World Civilization Since 1500
GEOG-2213 World Regional Geography
ABRD-2903 Studies in European Civilization

6 HOURS POLITICAL SCIENCE CHOSEN FROM

POLS-2113 American Politics
POLS-2213 Introduction to Global Politics
POLS-2413 Comparative Politics

PROFESSIONAL EDUCATION MINOR:

25 HOURS PROFESSIONAL EDUCATION

EDUC-3121 Orientation to Teacher Education
EDUC-3122 The School in American Culture
EDUC-3131 Classroom Management Strategies I
EDUC-3213 Learning, Instruction, and Assessment
EDUC-3421 Educational Technology
EDUC-3723 Education of the Exceptional Child
EDUC-4013 Human Relations and Cultural Awareness
EDUC-4131 Applied Instructional and Assessment Strategies
EDUC-4231 Critical Issues in Education
EDUC-4331 Classroom Management Strategies II
EDUC-4718 Student Teaching in the Secondary Schools

5 HOURS OTHER COURSES

EDUC-4112 Literacy in the Secondary Content Areas
PSYC-2523 Developmental Psychology

3 HOURS METHODS

EDUC-4473 Methods of Teaching Social Studies in Secondary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better OR university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

COLLEGE OF LIBERAL ARTS

DEPARTMENT OF LANGUAGE & LITERATURE

AREAS OF STUDY

English (ENGL)
French (FRNC)
German (GERM)
Japanese (JAPN)
Spanish (SPAN)

DEGREES OFFERED

B.A. Degree in English
 With an English/Teaching English as a Foreign Language Emphasis
 With an English/Writing Emphasis
B.S.E. Degree in English Education

SECOND MAJOR ONLY

Vocational Spanish

MINORS

English
Spanish
Teaching English as a Foreign Language
Writing

CERTIFICATES

Teaching English as a Foreign Language

FACULTY

Cami Agan, Ph.D., Distinguished Professor of English
Travis Montgomery, Ph.D., Chair, Department of Language and Literature, Professor of English
Gail Nash, Ph.D., Professor of English
Nathan Shank, Ph.D., Associate Professor of English
Tina Ware, Ph.D., Professor of Spanish

DEAN

Brian Simmons, Ph.D., Dean, College of Liberal Arts; Professor of Communication

LOCATION

Second floor, Mabee Learning Center

B.A. DEGREE IN ENGLISH - 42 HOURS, MINOR REQUIRED PLUS 6 HOURS OF SAME FOREIGN LANGUAGE

The English major must meet all of the general requirements for the B.A. degree. The major consists of 42 hours of English beyond English Composition I and II.

An OC graduate with a Bachelor of Arts degree in English will demonstrate:

1. Critical thinking skills.
2. Clear, correct, and effective communication in English.
3. Comprehension, interpretation, and evaluation of texts, including critical works and works of British, American, and World Literature in their cultural and historical context, with the use of various theoretical methodologies.
4. Basic skills in a foreign language.
5. Exploration of and contribution of the world of ideas.
6. Articulation of and engagement in the personal integration of faith and learning.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

9 HOURS FOUNDATION

ENGL-2213 Perspectives in Literature

ENGL-3013 Literary Criticism

ENGL-4213 Studies in Shakespeare

6 HOURS ENGLISH LITERATURE

ENGL-3153 English Literature Survey I

ENGL-3253 English Literature Survey II

6 HOURS AMERICAN LITERATURE

ENGL-3673 American Literature Survey I

ENGL-3773 American Literature Survey II

6 HOURS WORLD LITERATURE

ENGL-3123 World Literature I, Classical to Renaissance

ENGL-3133 World Literature II, Renaissance to Modern

12 HOURS UPPER DIVISION ENGLISH COURSES

At least 6 hours must be 4000 level

3 HOURS SENIOR CAPSTONE

ENGL-4733 Senior Capstone

6 HOURS SAME FOREIGN LANGUAGE

Take six hours of the same foreign language

B.S.E. DEGREE IN ENGLISH EDUCATION

76 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

This major is designed for those who plan careers in middle, junior, and senior high school teaching. A student in this degree program must have two advisors, one in English and one in education. The student must meet all the requirements for the B.S.E. degree, including a minor in Professional Education and 40 hours in the major beyond freshman composition.

An OC graduate with a Bachelor of Science in Education degree in English Education will:

1. Through extensive writing, research, presentations, class discussion, and testing, demonstrate critical thinking skills, clear, correct, and effective communication in English; comprehension, interpretation, and evaluation of texts, including critical works and works of British, American, and World Literature in their cultural and historical contexts, with the use of various theoretical methodologies; skills in applying the essential concepts of English structure and linguistics; basic skills in a foreign language (B.S.E. - two years in high school, B.A. - six hours); exploration of and contribution to the world of ideas; and articulation of and engagement in the personal integration of faith and learning
2. Demonstrate an in-depth knowledge of English language and literature by achieving a 3.0 GPA in the specified major courses required for certification in English and passing the Oklahoma Subject Area Test (OSAT) in English.
3. Demonstrate that they have acquired the knowledge, skills, and dispositions appropriate for initial entry into the profession of teaching by completing a specified curriculum in professional education courses with no grades below a grade of "C," passing the APK Assessment, and receiving average ratings of Proficient on the Formative and Summative assessments in student teaching.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

3 HOURS INTRODUCTION TO LITERATURE

ENGL-2213 Perspectives in Literature

This course must be completed before enrolling in upper-level Literature courses.

3 HOURS GRAMMAR AND COMPOSITION

ENGL-3713 Structures of the English Language

3 HOURS LINGUISTICS

ENGL-3313 Introduction to Linguistics

6 HOURS AMERICAN LITERATURE

ENGL-3673 American Literature Survey I

ENGL-3773 American Literature Survey II

3 HOURS LITERARY CRITICISM

ENGL-3013 Literary Criticism

6 HOURS ENGLISH LITERATURE

ENGL-3153 English Literature Survey I

ENGL-3253 English Literature Survey II

6 HOURS WORLD LITERATURE

ENGL-3123 World Literature, Classical to Renaissance

ENGL-3133 World Literature, Renaissance to Modern

3 HOURS SHAKESPEARE

ENGL-4213 Studies in Shakespeare

3 HOURS SENIOR CAPSTONE

ENGL-4733 Senior Capstone

4 HOURS ELECTIVES FROM THE FOLLOWING AREAS

Take four hours electives from Communication, Drama, or Journalism

8 HOURS OTHER COURSES

EDUC-4112 Literacy in the Secondary Content Areas

PSYC-1113 General Psychology

PSYC-2523 Developmental Psychology I

3 HOURS METHODS

EDUC-4553 Methods of Teaching Language Arts in Secondary Schools

25 SEMESTER HOURS PROFESSIONAL EDUCATION MINOR

EDUC-3121 Orientation to Teacher Education

EDUC-3122 The School in American Culture

EDUC-3131 Classroom Management Strategies I

EDUC-3213 Learning, Instruction, and Assessment

EDUC-3421 Educational Technology

EDUC-3723 Education of the Exceptional Child

EDUC-4013 Human Relations and Cultural Awareness

EDUC-4131 Applied Instructional and Assessment Strategies

EDUC-4231 Critical Issues in Education

EDUC-4331 Classroom Management Strategies II

EDUC-4718 Student Teaching in the Secondary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better
OR university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

B.A. DEGREE IN ENGLISH/TEACHING ENGLISH AS A FOREIGN LANGUAGE 39 HOURS, MINOR REQUIRED, PLUS 6 HOURS OF SAME FOREIGN LANGUAGE

An OC graduate with a Bachelor of Arts degree in English/Teaching English as a Foreign Language will:

1. Demonstrate competence in teaching English as a foreign language either abroad or domestically.
2. Demonstrate comprehension of linguistics, grammar, intercultural communication, language learning theory, and teaching methodology.
3. Demonstrate the ability to think, read, and write critically, especially on issues related to language learning and teaching.
4. Engage in and articulate a personal integration of faith and learning.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

18 HOURS SPECIALIZED TEFL

ENGL-2333 TEFL Experience
ENGL-3313 Introduction to Linguistics
ENGL-3713 Structures of the English Language
ENGL-3723 Methods of TEFL
ENGL-4633 Intercultural Communication I
ENGL-4863 TEFL Student Teaching Practicum

3 HOURS INTRODUCTION TO LITERATURE

ENGL-2213 Perspectives in Literature

This course must be completed before enrolling in upper-level literature courses.

9 HOURS 3000 LEVEL OR ABOVE LITERATURE TAUGHT IN ENGLISH

3 HOURS SENIOR CAPSTONE

ENGL-4733 Senior Capstone

6 HOURS CHOSEN FROM THE FOLLOWING

Take any upper-division ENGL or SPAN courses not already taken

6 HOURS SAME FOREIGN LANGUAGE

Take six hours of the same foreign language

B.A. DEGREE IN ENGLISH/WRITING - 42 HOURS, MINOR REQUIRED PLUS 6 HOURS OF SAME FOREIGN LANGUAGE

An OC graduate with a Bachelor of Arts degree in English/Writing will:

1. Demonstrate a versatile ability to write rhetorically successful texts, whether creative, professional, journalistic, and/or academic writing.
2. Think critically and creatively about academic issues.
3. Be able to research, analyze, synthesize, and critique literary texts.
4. Compose a substantial portfolio of writing suitable for job applications.
5. Engage in and articulate a personal integration of faith and learning.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

3 HOURS INTRODUCTION TO LITERATURE

ENGL-2213 Perspectives in Literature

This course must be completed before enrolling in upper-level literature courses.

3 HOURS CREATIVE WRITING

ENGL-3523 Creative Writing I

3 HOURS ADVANCED WRITING

ENGL-3813 Advanced Writing

3 HOURS TECHNICAL WRITING

ENGL-3493 Technical Writing

15 HOURS 3000 LEVEL OR ABOVE LITERATURE COURSES

At least one of these courses must be 4000 level

6 HOURS GRAMMAR AND LINGUISTICS

ENGL-3313 Introduction to Linguistics

ENGL-3713 Structures of the English Language

6 HOURS JOURNALISM CHOSEN FROM

COMM-2043 Managing Social Media

COMM-3823 Feature Writing

ENGL-4873 Writing Internship

3 HOURS SENIOR CAPSTONE

ENGL-4733 Senior Capstone

6 HOURS SAME FOREIGN LANGUAGE

Take six hours of the same foreign language

VOCATIONAL SPANISH

30 HOURS, TAKEN ONLY AS A SECOND MAJOR

This second major in Vocational Spanish serves students academically and spiritually while preparing them to assist their communities. This major challenges students in an educational setting while grooming them to serve their Spanish-speaking colleagues/patients/clients and tend to Spanish-speakers in their hometowns and on the mission field.

An OC graduate with any degree and a second major in Vocational Spanish will demonstrate:

1. Proficiency in speaking the Spanish language to participate in fluid conversations with native speakers of Spanish.
2. Proficiency in reading and understanding prose and poetry in Spanish and writing research papers and essays in Spanish.
3. An awareness and appreciation of the cultures of Spanish-speaking countries including the customs, religion and general way of life.
4. Familiarity with the structure of the Spanish language, including the grammar of their native language as it compares with that of Spanish.

27 HOURS REQUIRED SPANISH

SPAN-1113 Basic Spanish I
SPAN-1213 Basic Spanish II
SPAN-2113 Intermediate Spanish I
SPAN-2123 Intermediate Spanish II
SPAN-3223 Hispanic Civilization
SPAN-4313 Advanced Grammar and Composition
SPAN-4413 Advanced Spanish Conversation
SPAN-4613 Advanced Conversation and Grammar
SPAN-4711 Spanish Immersion Lab I
(This course must be taken three times.)

3 HOURS SPANISH LITERATURE

Take three hours of 3000/4000 level Spanish Literature

COLLEGE OF LIBERAL ARTS

DEPARTMENT OF MUSIC

AREAS OF STUDY

Education (EDUC)

Music (MUSC)

DEGREES OFFERED

B.A. Degree in Music

B.M.E. Degree in Music
 With an Instrumental Emphasis
 With a Vocal Emphasis

FACULTY

Daniel Bircher, M.M., Instructor of Music and Director of Choral & Vocal Studies

John Fletcher, Ph.D., Professor of Music

Heath Jones, Ph.D., Professor of Music, Chair, Department of Music

George Schrader, Ph.D., Assistant Professor of Music

DEAN

Brian Simmons, Ph.D., Dean, College of Liberal Arts; Professor of Communication

LOCATION

Garvey Center for the Liberal Arts

B.A. DEGREE IN MUSIC - 51 HOURS PLUS 6 HOURS OF SAME FOREIGN LANGUAGE

The B.A. degree in Music is for students desiring to study music in a liberal arts curriculum. In the tradition of a liberal arts education, this degree offers preparation for careers and graduate study not only in music, but in many other disciplines.

An OC graduate with a Bachelor of Arts degree in Music will demonstrate:

1. Ability to hear and analyze rhythm, melody, harmony, and form.
2. Ability to sight-read music and perform with other musicians.
3. Understanding of compositional and aesthetic properties of style and how the art of music is shaped by cultural forces.
4. Acquaintance with a wide selection of music literature beyond the student's specialization through lectures, assignments, and concert attendance.
5. Ability to perform a cross-section of that repertory according to the student's interest and program standards.
6. Ability to communicate clearly, critically, and creatively about music.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

11 HOURS BASIC THEORY

MUSC-1112 Music Theory I
MUSC-1211 Ear Training II
MUSC-1212 Music Theory II
MUSC-2111 Ear Training III
MUSC-2112 Music Theory II
MUSC-2211 Ear Training IV
MUSC-2212 Music Theory IV

4 HOURS CLASS PIANO

MUSC-1581 Class Piano I
MUSC-1681 Class Piano II
MUSC-2581 Class Piano III
MUSC-2681 Class Piano IV

9 HOURS MUSIC HISTORY

MUSC-3323 Music History I: Ancient Music Through the Renaissance
MUSC-3333 Music History II: Baroque and the Classical Music
MUSC-3343 Music History III: Romantic Music and Contemporary Music

3 HOURS WORLD MUSIC

MUSC-3213 Perspectives in World Music

5 HOURS ADVANCED THEORY AND TECHNOLOGY

MUSC-3412 Orchestration
MUSC-3433 Music Technology

2 HOURS CONDUCTING CHOSEN FROM

MUSC-4212 Choral Conducting I
MUSC-4312 Instrumental Conducting I

2 HOURS CONDUCTING CHOSEN FROM

MUSC-4222 Choral Conducting II
MUSC-4322 Instrumental Conducting II

8 HOURS APPLIED MUSIC (SELECTED FROM VOCAL AND INSTRUMENTAL STUDY WITH CONSENT OF ADVISOR)

2 HOURS MUSIC ELECTIVES OTHER THAN ENSEMBLES

4 HOURS MUSIC ENSEMBLE (1300 OR 1400 LEVEL COURSES)

1 HOUR CAPSTONE PROJECT OR RECITAL

MUSC-4001 Senior Recital
MUSC-4011 Senior Project

6 HOURS SAME FOREIGN LANGUAGE

B.M.E. DEGREE IN MUSIC, INSTRUMENTAL EMPHASIS

91 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

The B.M.E. degree is for students pursuing a teaching career in music. The degree provides the student with the necessary coursework required for the standard teaching certificate as outlined by the Oklahoma State Department of Education.

An OC graduate with a Bachelor of Music Education degree in Music, Instrumental Emphasis will demonstrate:

1. Ability to hear and analyze rhythm, melody, harmony, and form.
2. Ability to sight-read music and perform with other musicians.
3. Understanding of compositional and aesthetic properties of style and how the art of music is shaped by cultural forces.
4. Acquaintance with a wide selection of music literature beyond the student's specialization through lectures, assignments, and concert attendance.
5. Ability to perform a cross-section of that repertory according to the student's interest and program standards.
6. Ability to communicate clearly, critically, and creatively about music.
7. Ability to plan and teach elementary and secondary general music effectively.
8. Ability to conduct ensembles and rehearse instrumental music effectively.
9. Organizational leadership skills for management of instrumental ensembles in the public schools.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

11 HOURS BASIC THEORY

MUSC-1112 Music Theory I
MUSC-1211 Ear Training II
MUSC-1212 Music Theory II
MUSC-2111 Ear Training III
MUSC-2112 Music Theory II
MUSC-2211 Ear Training IV
MUSC-2212 Music Theory IV

4 HOURS CLASS PIANO

MUSC-1581 Class Piano I
MUSC-1681 Class Piano II
MUSC-2581 Class Piano III
MUSC-2681 Class Piano IV

3 HOURS WORLD MUSIC

MUSC-3213 Perspectives in World Music

9 HOURS MUSIC HISTORY

MUSC-3323 Music History I: Ancient Music Through the Renaissance
MUSC-3333 Music History II: Baroque and the Classical Music
MUSC-3343 Music History III: Romantic Music and Contemporary Music

5 HOURS ADVANCED THEORY AND TECHNOLOGY

MUSC-3412 Orchestration
MUSC-3433 Music Technology

4 HOURS CLASS INSTRUMENTS

MUSC-3121 Class Woodwinds
MUSC-3131 Class Brass
MUSC-3141 Class Percussion
MUSC-3151 Class Strings

4 HOURS CONDUCTING

MUSC-4312 Instrumental Conducting I
MUSC-4322 Instrumental Conducting II

8 HOURS APPLIED MUSIC (SELECTED FROM VOCAL AND INSTRUMENTAL STUDY WITH CONSENT OF ADVISOR)

8 HOURS MAJOR PERFORMANCE INSTRUMENT

4 HOURS MUSIC ENSEMBLE (1300 OR 1400 LEVEL COURSES)

1 HOUR CAPSTONE PROJECT OR RECITAL

MUSC-4001 Senior Recital
MUSC-4011 Senior Project

3 HOURS PSYCHOLOGY

PSYC-2523 Developmental Psychology

4 HOURS MUSIC METHODS

EDUC-4422 Elementary Music Methods
EDUC-4432 Secondary Instrumental Music Methods

23 HOURS PROFESSIONAL EDUCATION MINOR

EDUC-3121 Orientation to Teacher Education
EDUC-3122 The School in American Culture
EDUC-3213 Learning, Instruction, and Assessment
EDUC-3723 Education of the Exceptional Child
EDUC-4013 Human Relations and Cultural Awareness
EDUC-4131 Applied Instrumental and Assessment Strategies
EDUC-4231 Critical Issues in Education
EDUC-4331 Classroom Management Strategies II
EDUC-4818 Student Teaching in the Elementary and Secondary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better OR
university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

B.M.E. DEGREE IN MUSIC, VOCAL EMPHASIS

91 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

The B.M.E. degree is for students pursuing a teaching career in music. The degree provides the student with the necessary coursework required for the standard teaching certificate as outlined by the Oklahoma State Department of Education.

An OC graduate with a Bachelor of Music Education degree in Music, Vocal Emphasis will demonstrate:

1. Ability to hear and analyze rhythm, melody, harmony, and form.
2. Ability to sight-read music and perform with other musicians.
3. Understanding of compositional and aesthetic properties of style and how the art of music is shaped by cultural forces.
4. Acquaintance with a wide selection of music literature beyond the student's specialization through lectures, assignments, and concert attendance.
5. Ability to perform a cross-section of that repertory according to the student's interest and program standards.
6. Ability to communicate clearly, critically, and creatively about music.
7. Ability to plan and teach elementary and secondary general music effectively.
8. Ability to conduct ensembles and rehearse instrumental music effectively.
9. Organizational leadership skills for management of instrumental ensembles in the public schools.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

11 HOURS BASIC THEORY

MUSC-1112 Music Theory I
MUSC-1211 Ear Training II
MUSC-1212 Music Theory II
MUSC-2111 Ear Training III
MUSC-2112 Music Theory II
MUSC-2211 Ear Training IV
MUSC-2212 Music Theory IV

4 HOURS CLASS PIANO

MUSC-1581 Class Piano I
MUSC-1681 Class Piano II
MUSC-2581 Class Piano III
MUSC-2681 Class Piano IV

3 HOURS WORLD MUSIC

MUSC-3213 Perspectives in World Music

9 HOURS MUSIC HISTORY

MUSC-3323 Music History I: Ancient Music Through the Renaissance
MUSC-3333 Music History II: Baroque and the Classical Music
MUSC-3343 Music History III: Romantic Music and Contemporary Music

5 HOURS ADVANCED THEORY AND TECHNOLOGY

MUSC-3412 Orchestration
MUSC-3433 Music Technology

7 HOURS MUSIC TECHNIQUE

MUSC-2523 Introduction to Vocal Diction and Pedagogy
MUSC-4212 Choral Conducting I
MUSC-4222 Choral Conducting II

8 HOURS APPLIED MUSIC

8 HOURS VOICE

4 HOURS MUSIC ENSEMBLE (1300 OR 1400 LEVEL COURSES)

1 HOUR CAPSTONE PROJECT OR RECITAL

MUSC-4001 Senior Recital
MUSC-4011 Senior Project

3 HOURS PSYCHOLOGY

PSYC-2523 Developmental Psychology

4 HOURS MUSIC METHODS

EDUC-4422 Elementary Music Methods
EDUC-4442 Secondary Vocal Music Methods

1 HOUR MUSIC ELECTIVE

23 HOURS PROFESSIONAL EDUCATION MINOR

EDUC-3121 Orientation to Teacher Education
EDUC-3122 The School in American Culture
EDUC-3213 Learning, Instruction, and Assessment
EDUC-3723 Education of the Exceptional Child
EDUC-4013 Human Relations and Cultural Awareness
EDUC-4131 Applied Instrumental and Assessment Strategies
EDUC-4231 Critical Issues in Education
EDUC-4331 Classroom Management Strategies II
EDUC-4818 Student Teaching in the Elementary and Secondary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better OR
university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

COLLEGE OF LIBERAL ARTS

SCHOOL OF VISUAL ART + DESIGN

AREAS OF STUDY

Fine Arts (ARTS)
Digital Design (ARTS)
Gaming and Animation (ARTS)
Graphic Design (ARTS)
Interior Architecture (ARTS)

DEGREES OFFERED

B.F.A. Degree in Digital Design
B.F.A. Degree in Fine + Digital Art
B.F.A. Degree in Gaming and Animation
B.S. Degree in Gaming and Animation
B.F.A. Degree in Graphic Design
B.S. Degree in Graphic Design
B.F.A. Degree in Interior Architecture

MINORS

3D Modeling and Animation
Art
Art History
Graphic Design
Interior Architecture
Photo + Videography

FACULTY

Amy Beauchamp, M.F.A., Chair, School of Visual Art and Design; Associate Professor of Art and Design
Judson Copeland, B.F.A., Instructor of Art and Design
David Crismon, M.F.A., Professor of Art and Design
Jacob Touchstone, M.F.A. candidate, Assistant Professor of Gaming and Animation

SPECIAL NOTES FOR ART + DESIGN MAJORS

You must provide your own supplies, including some software. For each art and design course you take, OC reserves the right to retain one of your works for its permanent collection and to exhibit or reproduce the work in any of its publications. If an M.A. in Art History is anticipated, two courses in a foreign language and an additional nine hours of art history are highly recommended.

DEAN

Brian Simmons, Ph.D., Dean, College of Liberal Arts; Professor of Communication

LOCATION

Fletcher Center for Music
Garvey Center for the Liberal Arts
Kresge Fine Art

B.F.A. DEGREE IN DIGITAL DESIGN

72 HOURS

This major is for the person who desires a broad interdisciplinary approach to design. The Digital Design degree will integrate coursework from five major disciplines: Art History, Communication Design, Digital Art, Fine Arts, Gaming and Animation, and Interior Architecture.

This major is for the person wanting a general background in art or a vocation in the field of art and its related industries. An OC

graduate with a Bachelors in Fine Arts degree in Digital Design will:

1. Demonstrate a commitment to scholarship, creative expression, and independent thought.
2. Demonstrate effective visual problem-solving skills.
3. Produce an organized, coherent body of work and critically defend it.
4. Demonstrate a working understanding of art and design history, genres, movements, and practitioners.
5. Demonstrate an understanding of the role of faith in personal creative expression.
6. Analyze and respond to personal experience, professional standards, ethics and global perspectives.
7. Demonstrate an ability to critically evaluate peer and professional work.
8. Demonstrate a competency in current technology, and its applications in multiple design disciplines.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

15 HOURS FOUNDATION

ARTS-1103 Digital Imaging I
ARTS-1113 Fundamentals of Drawing
ARTS-1213 Figure Drawing
ARTS-1413 Elements of Visual Thinking
ARTS-3333 History of Design

9 HOURS INTERIOR ARCHITECTURE

ARTS-1653 Computer Aided Design
ARTS-2623 Residential Interior Design I
ARTS-2653 Space Planning and Codes

15 HOURS COMMUNICATION DESIGN

ARTS-2223 Introduction to Communication Design
ARTS-2233 Typography As Visual Language
ARTS-2323 Digital Imaging II
ARTS-3243 Graphic Design
ARTS-3733 The Business of Branding Yourself

9 HOURS GAMING AND ANIMATION

ARTS-2523 Digital Sculpting
ARTS-2743 3D Modeling I
ARTS-3163 Animation Principles

12 HOURS FINE/DIGITAL ARTS

ARTS-2143 Digital Painting
ARTS-3363 Photography I
ARTS-4213 Open Studio
ARTS-4023 Digital Design Capstone

6 HOURS ART HISTORY CHOSEN FROM

ARTS-2423 History of Photography and Motion Pictures
ARTS-3343 Ancient to Modern Art History
ARTS-3353 Contemporary Art
ARTS-3043 Arts and Politics I
ARTS-3053 Arts and Politics II

6 HOURS EMPHASIS ELECTIVES CHOSEN FROM

ARTS-2133 Introduction to Game Technology
ARTS-2663 Architectural Graphics
ARTS-3253 Print + Digital Delivery Design
ARTS-3263 Advanced Graphic Design

B.F.A. DEGREE IN FINE + DIGITAL ART

72 HOURS

This major is for the person who desires a broad interdisciplinary approach to Fine and Digital Art. This degree will integrate coursework from studio and historical courses, and facilitate the exploration of traditional and technology based approaches to creating art,

An OC graduate with a Bachelor of Fine Arts degree in Fine and Digital Art will:

1. Demonstrate a commitment to scholarship, creative expression, and independent thought.
2. Demonstrate effective visual problem-solving skills.
3. Produce an organized, coherent body of work and critically defend it.
4. Demonstrate a working understanding of art-design history, genres, movements, and practitioners.
5. Demonstrate an understanding of the role of faith in their personal creative expression.
6. Analyze and respond to personal experience, professional standards, ethics, and global perspectives.
7. Demonstrate the ability to critically evaluate peer and professional work.
8. Demonstrate a competency in current technology, and its applications in multiple design disciplines.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

12 HOURS FOUNDATION

ARTS-1103 Digital Imaging I
ARTS-1113 Fundamentals of Drawing
ARTS-1213 Figure Drawing
ARTS-1413 Elements of Visual Thinking

18 HOURS REQUIRED

ARTS-2223 Introduction to Communication Design
ARTS-2233 Typography As Visual Language
ARTS-2323 Digital Imaging II
ARTS-3363 Photography I
ARTS-3773 Business of Branding Yourself
ARTS-4023 Digital Design Capstone

12 HOURS PAINTING

ARTS-2143 Digital Painting
ARTS-2513 Painting I
ARTS-3213 Painting II
ARTS-4213 Open Studio

12 HOURS ART HISTORY

ARTS-2423 History of Photography and Motion Pictures
ARTS-3333 History of Design
ARTS-3343 Ancient to Modern Art History
ARTS-3353 Contemporary Art

9 HOURS OF ELECTIVES

ARTS-3043 Art & Politics I
ARTS-3053 Art & Politics II
ARTS-3253 Print and Digital Delivery Design
ARTS-3393 Game History and Development
ARTS-3423 History of Animation
ARTS-3523 Conceptual Illustration
ARTS-3533 History Interior Design I
ARTS-3543 History Interior Design II
ARTS-3633 Contemporary Interior Design Expression
ARTS-4253 Integrated Marketing Design
ARTS-4523 Visual Storytelling
ARTS-4643 Senior Exhibit *
ARTS-4803 African American Art History
ARTS-4833 Art Internship *

9 HOURS PROFESSIONAL EMPHASIS CHOSEN FROM

Gaming + Animation

ARTS-2523 Digital Sculpting
ARTS-2743 Gaming 3D Modeling I
ARTS-3393 Game History and Development

Communication Design

ARTS-2243 Interactive Media Design I
ARTS-3243 Graphic Design
ARTS-3263 Advanced Graphic Design

Interior Architecture

ARTS-1623 Introduction to Interior Design
ARTS-1643 Textiles Materials and Finishes
ARTS-2123 Rendering in Perspectives

Art History (cannot be duplicated within degree)

ARTS-3043 Art & Politics 2: Weimar to Present
ARTS-3393 Game History and Development
ARTS-3423 History of Animation
ARTS-3533 History Interior Design I
ARTS-3543 History Interior Design II
ARTS-3633 Contemporary Interior Design Expression
ARTS-3813 Arts & Politics: French Revolution to WWI
ARTS-4803 African American Art History

*Instructor Permission only

B.F.A. DEGREE IN GAMING AND ANIMATION

72 HOURS

The Bachelor of Fine Arts in Gaming and Animation prepares students to use emerging media for the purpose of game design, self-expression, and experimentation. Gaming and Animation students will have a grasp of industry-level skills and artistic techniques including texturing, UV mapping, animating and rigging 3D models, game level design, 2D animation techniques, audio production, and interactive design.

An OC graduate with a Bachelor of Fine Arts degree in Gaming and Animation will:

1. Demonstrate a commitment to scholarship, creative expression, and independent thought.
2. Demonstrate effective visual problem solving skills.
3. Produce an organized, coherent body of work and critically defend it.
4. Demonstrate a working understanding of art-design history, genres, movements, and practitioners.
5. Demonstrate an understanding of the role of faith in their personal creative expression.
6. Analyze and respond to personal experience, professional standards, ethics, and global perspectives.
7. Demonstrate the ability to critically evaluate peer and professional work in their discipline.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS FOUNDATION

ARTS-1103 Digital Imaging I
ARTS-1113 Fundamentals of Drawing
ARTS-1213 Figure Drawing
ARTS-1413 Elements of Visual Thinking
ARTS-2133 Introduction to Game Technology
ARTS-2143 Digital Painting
ARTS-2523 Digital Sculpting
ARTS-2753 Texturing, Rendering, and Lighting

12 HOURS ART AND DESIGN HISTORY

ARTS-2423 History of Photography and Motion Pictures
ARTS-3333 History of Design
ARTS-3353 Contemporary Art
ARTS-3393 Game History and Development

33 HOURS GAMING AND ANIMATION

ARTS-2243 Interactive Media Design I
ARTS-2743 3D Modeling I
ARTS-3163 Animation Principles
ARTS-3173 3D Modeling and Animation II
ARTS-3363 Photography I
ARTS-3383 Motion Imagery
ARTS-3423 History of Animation
ARTS-3453 Team Game Production I
ARTS-4113 Game Design Theory
ARTS-4223 Gaming and Animation Studio
ARTS-4663 Gaming and Animation Capstone

3 HOURS MANAGEMENT CHOSEN FROM

ARTS-3733 The Business of Branding Yourself
MGMT-3323 Entrepreneurship and Small Business Management

B.F.A. DEGREE IN GRAPHIC DESIGN

72 HOURS

This major is for the person wanting to be an animator, game designer, art director, graphic designer, web designer, account executive, or copywriter for an advertising agency, graphic design studio, "in-house" corporate art department, or interactive design company.

An OC graduate with a Bachelor of Fine Arts degree in Graphic Design will:

1. Demonstrate a commitment to scholarship, creative expression, and independent thought.
2. Demonstrate effective visual problem solving skills.
3. Produce an organized, coherent body of work and critically defend it.
4. Demonstrate a working understanding of art-design history, genres, movements, and practitioners.
5. Demonstrate an understanding of the role of faith in their personal creative expression.
6. Analyze and respond to personal experience, professional standards, ethics, and global perspectives.
7. Demonstrate the ability to critically evaluate peer and professional work in their discipline.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

15 HOURS FOUNDATION

ARTS-1103 Digital Imaging I
ARTS-1113 Fundamentals of Drawing
ARTS-1213 Figure Drawing
ARTS-1413 Elements of Visual Thinking
ARTS-3343 Ancient to Modern Art History

48 HOURS GRAPHIC DESIGN

ARTS-2223 Introduction to Communication Design
ARTS-2233 Typography As Visual Language
ARTS-2243 Interactive Media Design I
ARTS-2323 Digital Imaging II
ARTS-3243 Graphic Design
ARTS-3253 Print and Digital Delivery Design
ARTS-3263 Advanced Graphic Design
ARTS-3333 History of Design
ARTS-3363 Photography
ARTS-3443 Interactive Media Design II
ARTS-3523 Conceptual Illustration
ARTS-3703 Motion Graphics
ARTS-3773 Business of Branding Yourself
ARTS-4253 Integrated Marketing Design
ARTS-4523 Visual Storytelling
ARTS-4813 Graphic Design Internship

9 HOURS ELECTIVES CHOSEN FROM

Take any Art and Design courses not already taken and/or the following courses:

COMM-2613 Media, Faith and Culture
COMM-2813 Social Media & Advertising Principles
MGMT-3323 Entrepreneurship and Small Business Management
MGMT-3513 Digital Marketing
MKTG-2413 Consumer Behavior
MKTG-3313 Principles of Marketing
MKTG-3733 Promotional Strategies

B.S. DEGREE IN GAMING AND ANIMATION

54 HOURS, MINOR REQUIRED

This major is for the person wanting a general background in art or a vocation in the field of art and its related industries.

An OC graduate with a Bachelor of Science degree in Gaming and Animation will:

1. Demonstrate a commitment to scholarship, creative expression, and independent thought.
2. Demonstrate effective visual problem-solving skills.
3. Produce an organized, coherent body of work and critically defend it.
4. Demonstrate a working understanding of art/design history, genres, movements, and practitioners.
5. Demonstrate and understand the role of faith in their personal creative expression.
6. Analyze and respond to personal experience, professional standards, ethics, and global perspectives.
7. Demonstrate the ability to critically evaluate peer and professional work in their discipline.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

12 HOURS FOUNDATION

ARTS-1103 Digital Imaging I
ARTS-1413 Elements of Visual Thinking
ARTS-2743 3D Modeling I
ARTS-3393 Game History and Developing

3 HOURS CHOSEN FROM

ARTS-1113 Fundamentals of Drawing
ARTS-1213 Figure Drawing

30 HOURS GAMING AND ANIMATION

ARTS-2133 Introduction to Game Technology
ARTS-2523 Digital Sculpting
ARTS-2753 Texturing, Rendering, and Lighting
ARTS-3153 Animation Principles
ARTS-3173 3D Modeling and Animation II
ARTS-3383 Motion Imagery
ARTS-3423 History of Animation
ARTS-3453 Team Game Production I
ARTS-4223 Gaming and Animation Studio
ARTS-4663 Gaming and Animation Capstone

3 HOURS MANAGEMENT CHOSEN FROM

ARTS-3733 The Business of Branding Yourself
MGMT-3323 Entrepreneurship and Small Business Management

6 HOURS ELECTIVES CHOSEN FROM

ARTS-2143 Digital Painting
ARTS-2243 Interactive Media Design I
ARTS-3363 Photography I
ARTS-3443 Interactive Media Design II
ARTS-3523 Conceptual Illustration
ARTS-4113 Game Design Theory
ARTS-4523 Visual Storytelling
CMSC-1113 Programming I
CMSC-1123 Programming II
MUSC-4013 Audio for Gaming

RECOMMENDED

It is recommended that students take ARTS-3703 for their core requirement.

SUGGESTED MINORS

Art, Computer Science, General Business, Graphic Design, Interior Architecture, Management, Marketing, Music

B.S. DEGREE IN GRAPHIC DESIGN

51 HOURS, MINOR REQUIRED

This major is for the person wanting a general background in art or a vocation in the field of art and its related industries.

An OC graduate with a Bachelor of Science degree in Graphic Design will:

1. Demonstrate a commitment to scholarship, creative expression, and independent thought.
2. Demonstrate effective visual problem solving skills.
3. Produce an organized, coherent body of work and critically defend it.
4. Demonstrate a working understanding of art/design history, genres, movements, and practitioners.
5. Demonstrate and understand the role of faith in their personal creative expression.
6. Analyze and respond to personal experience, professional standards, ethics, and global perspectives.
7. Demonstrate the ability to critically evaluate peer and professional work in their discipline.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

6 HOURS FOUNDATION

ARTS-1413 Elements of Visual Thinking
ARTS-3773 The Business of Branding Yourself

3 HOURS CHOSEN FROM

ARTS-1113 Fundamentals of Drawing
ARTS-1213 Figure Drawing

30 HOURS COMMUNICATION DESIGN

ARTS-2223 Introduction to Communication Design
ARTS-2233 Typography As Visual Language
ARTS-3243 Graphic Design
ARTS-3253 Print and Digital Delivery Design
ARTS-3263 Advanced Graphic Design
ARTS-3333 History of Design
ARTS-3523 Conceptual Illustration
ARTS-4253 Integrated Marketing Design
ARTS-4523 Visual Storytelling
ARTS-4810 Graphic Design Internship

12 HOURS DIGITAL DESIGN

ARTS-1103 Digital Imaging I
ARTS-2243 Interactive Media Design I
ARTS-2323 Digital Imaging II
ARTS-3443 Interactive Media Design II

SUGGESTED MINORS

Gaming and Animation, Marketing, Photography and Videography, Writing (copywriting and content writing)

B.F.A. DEGREE IN INTERIOR ARCHITECTURE

72 HOURS

This major is for persons wanting a career in residential or commercial interior architecture or a specialty design area.

An OC graduate with a Bachelor of Fine Arts degree in Interior Architecture will:

1. Demonstrate a commitment to scholarship, creative expression, and independent thought.
2. Demonstrate effective visual problem-solving skills.
3. Produce an organized, coherent body of work and critically defend it.
4. Demonstrate a working understanding of art-design history, genres, movements, and practitioners.
5. Demonstrate an understanding of the role of faith in their personal creative expression.
6. Analyze and respond to personal experience, professional standards, ethics, and global perspectives.
7. Demonstrate the ability to critically evaluate peer and professional work in their discipline.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

9 HOURS FOUNDATION

ARTS-1103 Digital Imaging I
ARTS-1113 Fundamentals of Drawing
ARTS-1413 Elements of Visual Thinking

3 HOURS ART HISTORY CHOSEN FROM

ARTS-3333 History of Design
ARTS-3343 Ancient to Modern Art History
ARTS-3353 Contemporary Art

54 HOURS INTERIOR ARCHITECTURE

ARTS-1623 Introduction to Interior Design
ARTS-1643 Interior Textiles, Materials, and Finishes
ARTS-1653 Computer Aided Design
ARTS-2123 Rendering in Perspectives
ARTS-2443 Construction Materials and Details
ARTS-2623 Residential Interior Design I
ARTS-2653 Space Planning and Codes
ARTS-2663 Architectural Graphics
ARTS-2673 Residential Interior Design II
ARTS-2743 3D Modeling I
ARTS-3533 Historical Interior Design I
ARTS-3543 Historical interior Design II
ARTS-3613 Interior Systems
ARTS-3623 Commercial Design I
ARTS-3633 Contemporary Interior Design Expression
ARTS-3643 Commercial Design II
ARTS-4613 Interior Design Professional Practices and Portfolio
ARTS-4633 Senior Interior Design Studio

3 HOURS INTERIOR ARCHITECTURE INTERNSHIP

ARTS-4823 Interior Design Internship

3 HOURS BUSINESS

Take three hours of upper-division business courses, as approved by advisor.

COLLEGE OF LIBERAL ARTS MINORS AND CERTIFICATES

MINORS

SCHOOL OF VISUAL ARTS

3D MODELING AND ANIMATION MINOR - 21 HOURS

ARTS-2133	Introduction to Game Technology
ARTS-2523	Digital Sculpting
ARTS-2743	3D Modeling I
ARTS-2753	Texturing, Rendering, and Lighting
ARTS-3163	Animation Principles
ARTS-3173	3D Modeling and Animation II
ARTS-3703	Motion Graphics

ART MINOR - 21 HOURS

15 hours required

ARTS-1103	Digital Imaging I
ARTS-1113	Fundamentals of Drawing
ARTS-1213	Figure Drawing
ARTS-1413	Elements of Visual Thinking
ARTS-3113	Printmaking Intaglio and Relief

3 hours chosen from

ARTS-2513	Painting I
ARTS-3523	Conceptual Illustration

3 hours Art History chosen from

ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art

ART HISTORY MINOR - 21 HOURS

21 hours chosen from

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
ARTS-3333	History of Design
ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art
ARTS-3393	Gaming History and Development
ARTS-3423	History of Animation
ARTS-3533	History of Interior Design I
ARTS-3543	History of Interior Design II
ARTS-3633	Contemporary Interior Design

GRAPHIC DESIGN MINOR - 21 HOURS

ARTS-1103	Digital Imaging I
ARTS-1413	Elements of Visual Thinking
ARTS-2223	Introduction to Communication Design
ARTS-2233	Typography as Visual Language
ARTS-2323	Digital Imaging II
ARTS-3243	Graphic Design
ARTS-3263	Advanced Graphic Design

Courses in the major cannot be applied toward the minor. A shortfall of hours is to be fulfilled by taking any of the electives listed:

ARTS-2243	Interactive Media Design I
ARTS-3363	Photography I
ARTS-3443	Interactive Media Design II
ARTS-3253	Print and Digital Delivery Design
ARTS-3523	Conceptual Illustration
ARTS-4253	Integrated Marketing Design
ARTS-4333	Photography II
ARTS-4523	Visual Storytelling

INTERIOR ARCHITECTURE MINOR - 18 HOURS

15 hours required

ARTS-1623	Introduction to Interior Design
ARTS-1643	Interior Textiles, Materials, and Finishes
ARTS-1653	Computer Aided Design
ARTS-2623	Residential Interior Design
ARTS-2663	Architectural Graphics for Interior Design

3 hours Design History chosen from

ARTS-3533	Historic Interior Design, Antiquity to 1850
ARTS-3633	Contemporary Interior Design, 1850 to Present

PHOTOGRAPHY + VIDEOGRAPHY MINOR - 21 HOURS

15 hours required

ARTS-1103	Digital Imaging I
ARTS-3703	Motion Graphics
COMM-2643	Media Production
COMM-3633	Audio for Media
COMM-3653	Location Filming and Editing

6 hours electives chosen from

ARTS-2423	History of Photography and Motion Pictures
ARTS-3363	Photography I
ARTS-4333	Photography II
COMM-2413	Photographic Principles and Practices
MUSC-4013	Audio for Gaming

DEPARTMENT OF HISTORY, POLITICAL SCIENCE & CRIMINAL JUSTICE

HISTORY MINOR - 18 HOURS

Take 18 hours of History courses, including at least nine hours upper-division

POLITICAL SCIENCE MINOR - 18 HOURS

3 hours required

POLS-2113	American Politics
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6 additional hours of Political Science

9 hours of upper-division Political Science

CRIMINAL JUSTICE MINOR - 18 HOURS

3 hours required

CRMJ-1003	Introduction to Criminal Justice
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PRE-LAW MINOR - 18 HOURS

9 hours Law Courses chosen from

BUSA-3213	Business Law
COMM-4713	Communication Law
CRMJ-4033	Intro to Criminal Investigation
POLS-4113	Constitutional Law
POLS-4313	International Law

9 hours chosen from

Law courses listed above

ENGL-3013	Literary Criticism
HIST-4733	Historiography
POLS-3413	Presidency & Congress
One 4000 Level ENGL course	
One 3000/4000 Level HIST course	
One 3000/4000 Level POLS course	

SOCIAL SCIENCE MINOR - 18 HOURS

18 hours chosen from any combination of Economics, Geography, History, Political Science, and Sociology under one of two plans:

- Two of the above areas with nine hours each (including at least nine hours upper-division) or
- Three areas with six hours each (including at least nine hours upper-division)

DEPARTMENT OF COMMUNICATION

COMMUNICATION STUDIES MINOR - 18 HOURS

18 hours Speech Communication

Including at least six hours upper-division, with not more than three hours of 1300 level courses counting toward the minor. May not include COMM-1213.

INTERNATIONAL STUDIES MINOR - 18 HOURS

6 hours Study Abroad or 6 hours Foreign Language

You must participate in an approved OC study abroad program or take six hours of foreign language. Contact the Office of International Programs for a list of approved programs.

Study abroad courses include:

GMIN-3053 Christianity and Culture
ABRD-2103 Cross Cultural Perspectives
ENGL-2213 Perspectives in Literature
ABRD-2903 Aesthetics
ABRD-2513 Human Geography of the Pacific Rim
GERM-1113 Basic German I
ABRD-2913 Studies in European Civilization
HONR-4113 Honors Experience

Foreign language courses include:

FRNC-1113 Basic French I
FRNC-1213 Basic French II
GREK-1113 Elementary Greek I
GREK-1213 Elementary Greek II
HBRW-3113 Elementary Hebrew I
HBRW-3213 Elementary Hebrew II
JAPN-1113 Basic Japanese I
JAPN-1213 Basic Japanese II
SPAN-1113 Basic Spanish I
SPAN-1213 Basic Spanish II

12 hours chosen from the following approved courses

ARTS-3333 History of Design
ARTS-3343 Ancient to Modern Art History
ARTS-3353 Contemporary Art
ARTS-3533 Historical Interior Design I
ARTS-3543 Historical Interior Design II
ENGL-3123 World Literature I
ENGL-3133 World Literature II
ENGL-3413 Studies in World Literature
ENGL-4633 Intercultural Communication I
ENGL-4643 Intercultural Communication II
GEOG-2213 World Regional Geography
HIST-2513 English History to 1603
HIST-2523 English History Since 1603
HIST-2613 The Modern Middle East
HIST-3563 19th Century Europe
HIST-3583 20th Century Europe
HIST-3913 Renaissance and Reformation
HIST-4523 History of Rome
HIST-4613 Medieval Europe
INTL-3313 International Business
GMIN-3013 Mission Preparation
GMIN-3113 Women in Missions
GMIN-3313 Cross-Cultural Ministry
GMIN-4113 Local Church and Missions
GMIN-4313 Missions in the Contemporary World
GMIN-4743 Social Entrepreneurship
GMIN-4813 Missions Experience
MKTG-4723 Global Marketing
MUSC-3213 Perspectives in World Music
MUSC-3323 Music History I: Ancient Through Renaissance
MUSC-3333 Music History II: Baroque Through Classical
MUSC-3343 Music History III: Romantic Through Contemporary
POLS-2213 Introduction to Global Politics
POLS-2413 Comparative Politics
POLS-3113 History of Western Political Thought
POLS-3513 International Political Economy
POLS-4213 Theories and Ethics in International Relations
POLS-4413 International Conflict
SOCI-3143 Introduction to Asian Civilizations
SOCI-3513 World Religions
SOCI-3613 Cultural Anthropology
GMIN-3013 Church History to 1517
GMIN-3023 Church History 1517 to Present

LEADERSHIP MINOR - 18 HOURS

9 hours Leadership Foundation

COMM-3333 Team Communication and Leadership
COMM-4523 Conflict Resolution and Peacemaking
LDSH-2003 Effective Leadership

9 hours electives chosen from

BUSA-3713 Business Ethics
COMM-3013 Culture and Leadership
COMM-3323 Organizational Communication
COMM-4013 Global Leadership
COMM-4023 Women and Leadership
COMM-4113 Persuasion and Advocacy
MGMT-3133 Principles of Management
MGMT-4313 Organizational Behavior
GMIN-2003 Introduction to Christian Ethics

MILITARY SCIENCE MINOR - 18 HOURS

18 hours Military Science, including at least nine hours upper-division

All Military Science classes will be taken at the University of Central Oklahoma or the University of Oklahoma.

SOCIAL MEDIA MINOR - 18 HOURS

COMM-2043 Managing Social Media
COMM-2643 Media Content Creation
COMM-2813 Social Media and Advertising Principles
COMM-2823 Public Relations and Social Influencer Principles
COMM-3543 Public Relations and Social Media Case Studies
COMM-3763 Communication Research and Analytics

DEPARTMENT OF MUSIC

MUSIC MINOR - 18 HOURS

8 hours Basic Music Theory

MUSC-1023 Fundamentals of Music MUSC-
1112 Music Theory I
MUSC-1211 Ear Training II MUSC-
1212 Music Theory II

3 hours Music Appreciation or Music History chosen from

MUSC-2013 Music Appreciation
MUSC-3323 Music History I: Ancient through Renaissance MUSC-3333
Music History II: Baroque through Classical MUSC-3343 Music History
III: Romantic and Contemporary

5-7 hours Ensemble Performance and Applied Study chosen from

1300-1500 level courses, at least two hours to be applied instruction

0-2 hours Class Piano

The following two courses must be taken unless piano skills from pre-college study are deemed sufficient by the piano faculty:

MUSC-1581 Class Piano I MUSC-
1681 Class Piano II

Music minors must enroll in MUSC-1000 and earn a grade of "C" or better for at least three semesters.

DEPARTMENT OF LANGUAGE AND LITERATURE

ENGLISH MINOR - 18 HOURS

3 hours required

ENGL-2213 Perspectives in Literature

15 hours English courses, with 12 hours being upper-division literature courses

May not include ENGL-1113 or ENGL-1213.

SPANISH MINOR - 18 HOURS

18 hours Spanish, including at least nine hours upper-division

Spanish Proficiency

Any candidate for teacher licensure may achieve Spanish Proficiency by completing one of the following:

- A minimum of 12 hours in Spanish or the equivalent of courses through Intermediate Spanish II;
- 18 hours in Spanish or the equivalent of courses through Intermediate Spanish II; or
- Four courses beyond novice-level proficiency. Additional requirements include field experience for immersion in the Spanish language (to be approved by the advisor).

Students may earn six of the required 12 hours in Spanish while spending a full month immersed in the target language and culture. The proficiency is noted on the transcript but has no effect on licensure.

TEACHING ENGLISH AS A FOREIGN LANGUAGE MINOR - 18 HOURS

ENGL-2333 TEFL Experience

ENGL-3313 Introduction to Linguistics

ENGL-3713 Structures of the English Language

ENGL-4633 Intercultural Communication I

ENGL-4713 Methods of TEFL

ENGL-4863 TEFL Student Teaching Practicum

WRITING MINOR - 18 HOURS

6 hours required

ENGL-3493 Technical Writing

ENGL-3813 Advanced Writing

9 hours chosen from

COMM-2723 Narrative Storytelling

COMM-3823 Feature Writing

ENGL-3313 Introduction to Linguistics

ENGL-3523 Creative Writing I

ENGL-3533 Creative Writing II

ENGL-3713 Structure of the English Language

ENGL-4851 Practicum in Writing/Research and Editing

ENGL-4852 Practicum in Writing/Research and Editing

3 hours upper-division literature

CERTIFICATES

DEPARTMENT OF LANGUAGE AND LITERATURE

The TEFL Certificate prepares students to teach English learners overseas or domestically. Each of the 3 courses includes practical work with English learners. The mix of theory and practice uniquely prepares students for the classroom.

Acceptance to OC precipitates acceptance into the certificate program. Students should be prepared to do academic research and complete course exams. Therefore, it is recommended that students complete first year college courses (30 hours) prior to enrolling in ENGL 2333 TEFL Experience I-the first course in the series.

TEACHING ENGLISH AS A FOREIGN LANGUAGE CERTIFICATE - 9 HOURS

ENGL-2333 TEFL

Experience ENGL-3723

Methods of TEFL

ENGL-4863 TEFL Student Teaching Practicum

COLLEGE OF OUTREACH AND INNOVATION

PROGRAM OVERVIEW

AREAS OF STUDY

- A.S. Associate of Science
- B.S. Bachelor of Science in Business, Leadership and Technology
- B.S. Bachelor of Science in Interdisciplinary Studies with an Emphasis in Education
- B.S. Bachelor of Science in Elementary Education
- B.S. Bachelor of Science in Elementary Education with an Emphasis in Special Education

CERTIFICATES

Teaching English as a Foreign Language Certificate (as part of the Bachelor of Science in Interdisciplinary Studies) - 9 hours
ENGL-2333 TEFL Experience
ENGL-3723 Methods of TEFL
ENGL-4863 TEFL Student Teaching Practicum

ACADEMY OF ALTERNATIVE CERTIFICATION

Oklahoma Christian University is helping to fill the teacher shortage with affordable courses for alternatively certified teachers. The Academy offers two three-credit hour courses (EDUC-3133: Classroom Management and EDUC-4033: Educational Pedagogy) in a streamlined, online format. These courses typically are taught in four-week blocks.

CONCURRENT ENROLLMENT

High school students may get a head start on their college career through concurrent enrollment. A university advisor will work with high school administrators or individual students to provide appropriate courses tailored to each student's strengths and long-term goals. Concurrent students most often take online general education courses that apply to a variety of degree programs.

FACULTY

Rachel Ashley, Ph.D., Assistant Professor of Chemistry
Mel Latorre, M.A., Instructor of Bible

DEAN

Sada Knowles, Ph.D., Dean of the College of Outreach and Innovation

LOCATION

Garvey Center

B.S. DEGREE IN BUSINESS, LEADERSHIP AND TECHNOLOGY

63 HOURS

This degree program is designed for the highly motivated student who is seeking insight in several areas of knowledge rather than a deep insight into only one. An interdisciplinary curriculum will aid the student in understanding contemporary American culture and their place in it. This degree program serves the student who wishes to complete a program of studies in Business, Leadership and Technology in order to lay a foundation for a specific career or professional goal not addressed by other OC majors.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

63 HOURS, 27 OF WHICH MUST BE 3000/4000 LEVEL COURSES

A STUDENT MUST DECLARE A MAJOR IN BUSINESS, LEADERSHIP AND TECHNOLOGY BEFORE COMPLETING 96 HOURS.

THE STUDENT MUST MEET THE MINIMUM TOTAL HOURS OF 122 IN ORDER TO GRADUATE.

33 HOURS BUSINESS

ACCT-2113	Accounting I
ACCT-2213	Accounting II
BUSA-1103	Business Principles & Applications
BUSA-3713	Business Ethics
COMM-3113	Business and Professional Communication
ECON-2113	Microeconomic Principles
ECON-2213	Macroeconomic Principles
FINC-3313	Principles of Finance
INFO-3613	Management Information Systems
MGMT-3113	Principles of Management
MKTG-3133	Principles of Marketing

15 HOURS TECHNOLOGY

MATH-2913	Statistical Methods
TECH-3013	Quality and Risk Management
TECH-3223	Data Visualization
TECH-4013	Process Optimization
TECH-4013	Project and Technology Management

15 HOURS LEADERSHIP

COMM-2003	Effective Leadership
COMM-4023	Women and Leadership
COMM-4633	Intercultural Communication
GMIN-1123	Biblical Peacemaking in the Workplace
LDSH-4023	Technology and Leadership

*If substitutions for the above courses are required, the subject matter expert must approve the substitution.

17 HOURS ADDITIONAL ELECTIVES

B.S. DEGREE IN INTERDISCIPLINARY STUDIES IN EDUCATION

60 HOURS

This degree program is designed for the highly motivated student with experience or current employment in education. An interdisciplinary studies curriculum, including areas such as social, religious, political, and scientific, will aid the student in understanding contemporary American culture and their place in it. This degree program also serves the student who wishes to craft a program of studies to pursue the alternative certification pathway to teaching in the state of Oklahoma. As such, students are required to meet the GPA requirement for the Oklahoma State Department of Education Career Development Program path for paraprofessionals. The requirement can be found at sde.ok.gov. As of the publication date of this policy, students must maintain a minimum 2.5 cumulative GPA in order to graduate, but the state's requirement may override this GPA requirement published in the catalog in the event that state policy changes."

Each student will follow the outlined curriculum plan; substitutions may be made within the areas of emphasis. The program must be approved by the Dean of the College of Outreach and Innovation.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

60 HOURS, 39 OF WHICH MUST BE 3000/4000 LEVEL COURSES

COURSES ARE TO BE DIVIDED AMONG THREE AREAS

Education, English, and Family Science.

MINIMUM OF 9 HOURS OF 3000/4000 LEVEL CLASSES IN EACH AREA

A STUDENT MUST DECLARE A MAJOR IN INTERDISCIPLINARY STUDIES BEFORE COMPLETING 96 HOURS.

THE STUDENT MUST MEET THE MINIMUM TOTAL HOURS OF 122 IN ORDER TO GRADUATE.

Recommended coursework to qualify for alternative certification and a TEFL certificate include:

15 HOURS ENGLISH

ENGL-2333 TEFL Experience
ENGL-3723 Methods of TEFL
ENGL-4633 Intercultural Communication
ENGL-4863 TEFL Student Teaching
SPAN-1213 Basic Spanish II

24 HOURS EDUCATION

EDUC 3131 Classroom Management Strategies I
EDUC -3213 Learning, Instruction, and Assessment
EDUC-3421 Educational Technology
EDUC-3723 Education of the Exceptional Child
EDUC-4043 Applied Instruction and Assessment
ELEM-3233 Primary Reading
ELEM-3323 Movement and Fine Arts
ELEM-3332 Elementary Language Arts
ELEM-3632 Social Studies for the Primary Child
ELEM-3733 Mathematics for the Primary Child
ELEM-3832 Science for the Primary Child

21 HOURS FAMILY SCIENCE

CHDV-3013 Nature and Characteristics of Early Childhood
CHDV-3023 Emergent Literacy
CHDV-4023 Topics in Early Childhood
FMST-1113 Introduction to Family Science
FMST-3513 Child Welfare
FMST-4713 Family Science Practicum
PSYC-2523 Developmental Psychology

B.S. DEGREE IN ELEMENTARY EDUCATION

60-69 HOURS (Online) No Licensure

The B.S. in Elementary Education is designed for Paraprofessionals who have already obtained an Associate's degree and wish to obtain an alternative teaching credential in Oklahoma that will allow them to obtain a teaching credential in their own state through a reciprocity program. The program is 100% online, competency-based, and job-embedded. The Oklahoma Christian University Bachelor's in Elementary Education, offered in partnership with BloomBoard, Inc., is aligned to the 2011 version of the Interstate Teacher Assessment and Support Consortium (InTASC) core teaching standards. Teachers who successfully complete this degree have demonstrated these skills within their classroom and school through portfolio-based artifacts. In addition to the InTASC standards, Biblically-based lessons will be integrated throughout the program on self-leadership (character), connecting with others, leading others, changing culture, and spiritual leadership.

60 Hours Educational Core courses

EDUC-3023	Internalizing Curriculum
EDUC-3033	Essentials of Classroom Culture
EDUC-3043	Instructional Delivery
EDUC-3053	Relationships
EDUC-3063	Student Support
EDUC-3073	Essentials of Assessment
EDUC-3103	ELA Methods I
EDUC-3123	Math Methods I
EDUC-4053	Introductory Disciplinary Methods
EDUC-4073	Science of Reading
EDUC-4103	Psychology of Education
EDUC-4143	Special Populations
EDUC-4153	Education as an Institution^
EDUC-4163	Classroom Culture II^
EDUC-4173	Essentials of Student-Centered Learning
EDUC-4203	Advanced Instructional Strategies^
EDUC-4213	ELA Methods II
EDUC-4223	Math Methods II EDUC-4233 Science Methods I
EDUC-4243	Social Studies Methods I

B.S. DEGREE IN ELEMENTARY EDUCATION with an Emphasis in Special Education

69-78 HOURS (Online) No Licensure

The B.S. in Elementary Education with an Emphasis in Special Education is designed for Paraprofessionals who have already obtained an Associate's degree and wish to obtain an alternative teaching credential and a Special Education certification in Oklahoma that will allow them to obtain a teaching credential in their own state through a reciprocity program. The program is 100% online, competency-based, and job-embedded. The Oklahoma Christian University Bachelor's in Elementary Education with an Emphasis in Special Education, offered in partnership with BloomBoard, Inc., is aligned to the 2011 version of the Interstate Teacher Assessment and Support Consortium (InTASC) core teaching standards. Teachers who successfully complete this degree have demonstrated these skills within their classroom and school through portfolio-based artifacts. In addition to the InTASC standards, Biblically-based lessons will be integrated throughout the program on self-leadership (character), connecting with others, leading others, changing culture, and spiritual leadership.

54 Hours Education Core Courses

EDUC-3023 Internalizing Curriculum
EDUC-3033 Essentials of Classroom Culture
EDUC-3043 Instructional Delivery
EDUC-3053 Relationships
EDUC-3063 Student Support
EDUC-3073 Essentials of Assessment
EDUC-3103 ELA Methods I
EDUC-3123 Math Methods I
EDUC-4053 Introductory Disciplinary Methods
EDUC-4073 Science of Reading
EDUC-4103 Psychology of Education
EDUC-4143 Special Populations
EDUC-4153 Education as an Institution^
EDUC-4163 Classroom Culture II^
EDUC-4213 ELA Methods II
EDUC-4223 Math Methods II
EDUC-4233 Science Methods I
EDUC-4243 Social Studies Methods I

15 Hours Special Education Courses

SPED-4043 Foundation of Supporting Students with Disabilities
SPED-4053 Characteristics of Students with Disabilities
SPED-4063 Methods for Teaching for Students with Disabilities
SPED-4073 Methods for Teaching for Students with Disabilities
SPED-4133 Professionalism and Collaboration for Educators Working with Students with Disabilities

COLLEGE OF SCIENCES AND EDUCATION

SCHOOL OF EDUCATION

AREAS OF STUDY

Early Childhood Education (ECED)
Education (EDUC)
Elementary Education (ELEM)

DEGREES OFFERED

B.S.E. Degree in Early Childhood Education
B.S.E. Degree in Elementary Education

SECONDARY (LICENSEURE, GRADES 6-12)

(See respective academic programs for details)

B.M.E. Degree in Music Education, Instrumental Emphasis
B.M.E. Degree in Music Education, Vocal Emphasis
B.S.E. Degree in English Education
B.S.E. Degree in Mathematics Education
B.S.E. Degree in Science Education - Biology
B.S.E. Degree in Social Studies Education

ELEMENTARY-SECONDARY (LICENSEURE, GRADES PK-12)

(See respective academic programs for details)

MINORS

Alternative Certification Education
Professional Education

FACULTY

Allan Cassady, Ph.D., Chair, School of Education, Teacher Education;
Professor of Education
Joanie Chambers, Ph.D., Associate Professor of Education

DEAN

Brent Sykes, Ed.D., Dean, College of Sciences and Education, Professor
of Education

TEACHER EDUCATION

The Teacher Education program is designed to ensure that teacher candidates develop a strong foundation in the liberal arts, a sound knowledge of their discipline, an understanding of how students learn, and a reasonable mastery of communication skills.

Preparation of effective classroom teachers has long been recognized as a strength of OC. The Teacher Education program has a history of excellent results, including high pass rates on state certification exams and high placement rates for graduates.

The Teacher Education program is approved by the Oklahoma Office of Educational Quality and Accountability. The unit is accredited by the Council for the Accreditation of Educator Preparation (CAEP) and OC has been a nationally accredited institution since 1972. The Teacher Certification Process is as follows:

Step 1: Admission to Teacher Education

After candidates have completed three semesters of work, they should apply for admission to Teacher Education, at which time a first check of character and scholarship will be made.

REQUIREMENTS FOR ADMISSION TO TEACHER EDUCATION

- Forty-five semester hours of credit with a GPA of 2.75.
- Grade of "C" or better in EDUC-3121 and EDUC-3122 (must have a GPA of 2.65 to enroll).
- Recommendation of major program.
- Recommendation of the Student Life Office.
- Grade of "C" or better in COMM-1213.
- Recommendation of Teacher Education Interview Committee.
- One character reference.
- Successful completion of Teacher Education Writing Evaluation with score of 75 or better (required in program).
- Documentation of successful participation in working with age level matching that of certification sought (PK-3, 6-12, PK-12). This is completed in Field Experience – EDUC-3121.

Note: Changes in teacher licensure requirements made by the state of Oklahoma may require that changes be made in the Teacher Education program at OC.

Students will apply for admission to Teacher Education early in the semester in which they are enrolled in EDUC-3121: Orientation to Teacher Education. Applications will be processed during that semester; those admitted to candidacy at the end of the semester will be notified and able to proceed in the Teacher Education program.

To continue in Teacher Education, teacher candidates must maintain a cumulative GPA of 2.75 and a grade of "C" or better in all education courses. Students who fall below minimum requirements will not be able to continue in the Teacher Education program until the requirements are again met. Candidates should confer with their advisors and/or the chair of the School of Education to develop a plan to meet all teacher education requirements.

PACE (Professional and Character Excellence) assessments are completed for all candidates enrolled in professional education courses each semester and for candidates in courses taught by members of the Teacher Education Council (content area professors). Candidates are assessed using an instrument, PACE Assessment in Education courses, on the following traits:

- Approaches teaching with positive and enthusiastic participation.
- Meets deadlines, works independently, and aims toward excellence.
- Demonstrates a Christian professional attitude with peers and School of Education personnel.
- Exemplifies mature behavior and emotional stability.
- Maintains punctual and regular attendance.

The rating is conducted using the standard School of Education rubric.

Teacher candidates who receive either three negative PACE reports in a row (three semesters) or five negative PACE reports overall (individual courses) will be dismissed from the Teacher Education program. After a teacher candidate receives a negative rating, they will receive a probationary letter from the School of Education.

Step 2: Admission to Student Teaching

Requirements for admission to student teaching are:

- Admission to Teacher Education program.
- 95 semester hours of credit.
- Passing score on TEWE.
- Passing score on the appropriate Oklahoma Subject Area Test (OSAT).
- Overall GPA of 2.75.
- GPA of 3.0 in major.
- Completion of two-thirds of major hours (all courses in the major must be completed before student teaching begins).
- Recommendation of major program.
- Recommendation of the Office of Student Life.
- Satisfactory completion of all field experiences.
- Fulfillment of the requirements for a foreign language, other than English, at the novice high level for listening and speaking. This requirement may be met by two years of the same foreign language in high school with a grade of "C" or better or three hours of college credit in a foreign language with a grade of "C" or better.
- Approval of the Teacher Education Council.
- No grades of D or lower in any EDUC or major area course, or Developmental Psychology.

STUDENT TEACHING

See "Teacher Education Handbook" and "Field Experiences Handbook" for guidelines, procedures, and requirements.

STATE REQUIRED TESTS

All candidates for an Oklahoma teaching license must pass two exams. There are fees associated with each state test: Oklahoma Subject Area Test (OSAT) and Assessment of Professional Knowledge (APK). For testing information, visit <http://www.coe.nesinc.com/>.

Step 3: Approval for Certification

To be recommended for a certificate, the candidate must complete student teaching and the APK Assessment. After the teacher candidate has completed all requirements for graduation and certification, the candidate will create an account with the State Department of Education. The Teacher Education program at Oklahoma Christian will alert the state department that all requirements have been met for certification.

B.S.E. DEGREE IN EARLY CHILDHOOD EDUCATION

60 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

An OC graduate with a Bachelor of Science in Education degree will:

1. Show that they have acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the TEWE.
2. Demonstrate and in-depth knowledge of the subject matter for the subject and level to be taught by achieving a 3.0 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.
3. Demonstrate that they have acquired the knowledge, skills, and dispositions appropriate for initial entry into the profession of teaching by completing a specified curriculum in professional education courses with no grades below a grade of "C," passing the APK, and receiving average ratings of Proficient on the Formative and Summative assessments in student teaching.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

35 HOURS EDUCATION

ECED-3013 Nature and Characteristics of Early Childhood
ECED-4013 Cognitive Skills
ECED-4013P Cognitive Skills Practicum
ECED-4023 Topics in Early Childhood
ECED-4111 Early Childhood Practicum
ELEM-3023 Emergent Literacy
ELEM-3233 Primary Reading
ELEM-3233P Primary Reading Practicum
ELEM-3323 Movement and Fine Arts
ELEM-3332 Elementary Language Arts
ELEM-3632 Social Studies for the Primary Child
ELEM-3733 Mathematics for the Primary Child
ELEM-3832 Science for the Primary Child
ELEM-3900P Primary Practicum
ELEM-4544 Strategies for Reading Assessment
PSYC-2523 Developmental Psychology

48 HOURS GENERAL EDUCATION STATE REQUIREMENTS

Communication - 12 hours
Mathematics - 12 hours
Science - 12 hours
Social Studies - 12 hours
University core courses apply to these requirements.

25 SEMESTER HOURS PROFESSIONAL EDUCATION MINOR

EDUC-3121 Orientation to Teacher Education
EDUC-3122 The School in American Culture
EDUC-3131 Classroom Management Strategies I
EDUC-3213 Learning, Instruction, and Assessment
EDUC-3421 Educational Technology
EDUC-3723 Education of the Exceptional Child
EDUC-4013 Human Relations and Cultural Awareness
EDUC-4131 Applied Instructional and Assessment Strategies
EDUC-4231 Critical Issues in Education
EDUC-4331 Classroom Management Strategies II
EDUC-4718 Student Teaching in the Secondary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better OR university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

Note: Practicum courses (P) do not affect the GPA and do not add to the semester course load. Grades earned in practicum courses reflect candidate performance in public school classrooms.

B.S.E. DEGREE IN ELEMENTARY EDUCATION

60 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

An OC graduate with a Bachelor of Science in Education degree will:

1. Show that they have acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the TEWE).
2. Demonstrate and in-depth knowledge of the subject matter for the subject and level to be taught by achieving a 3.0 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.
3. Demonstrate that they have acquired the knowledge, skills, and dispositions appropriate for initial entry into the profession of teaching by completing a specified curriculum in professional education courses with no grades below a grade of "C," passing the APK, and receiving average ratings of Proficient on the Formative and Summative assessments in student teaching.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

35 HOURS EDUCATION

ELEM-3023 Emergent Literacy
ELEM-3233 Primary Reading
ELEM-3233P Primary Reading Practicum
ELEM-3323 Movement and Fine Arts
ELEM-3332 Elementary Language Arts
ELEM-3632 Social Studies for Primary Students
ELEM-3733 Mathematics for Primary Students
ELEM-3832 Science for Primary Students
ELEM-3900P Primacy Practicum
ELEM-4242 Social Studies for Intermediate Students
ELEM-4342 Mathematics for Intermediate Students
ELEM-4433 Intermediate Reading
ELEM-4443 Science for Intermediate Students
ELEM-4544 Strategies for Reading Assessment
ELEM-4900P Intermediate Practicum
PSYC-2523 Developmental Psychology

48 HOURS GENERAL EDUCATION STATE REQUIREMENTS

Communication - 12 hours
Mathematics - 12 hours
Science - 12 hours
Social Studies - 12 hours
University core courses apply to these requirements.

25 SEMESTER HOURS PROFESSIONAL EDUCATION MINOR

EDUC-3121 Orientation to Teacher Education
EDUC-3122 The School in American Culture
EDUC-3131 Classroom Management Strategies I
EDUC-3213 Learning, Instruction, and Assessment
EDUC-3421 Educational Technology
EDUC-3723 Education of the Exceptional Child
EDUC-4013 Human Relations and Cultural Awareness
EDUC-4131 Applied Instructional and Assessment Strategies
EDUC-4231 Critical Issues in Education
EDUC-4331 Classroom Management Strategies II
EDUC-4618 Student Teaching in Elementary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better OR university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

Note: Practicum courses (P) do not affect the GPA and do not add to the semester course load. Grades earned in practicum courses reflect candidate performance in public school classrooms.

COLLEGE OF SCIENCES AND EDUCATION

MEDICAL LABORATORY SCIENCE PROGRAM

AREAS OF STUDY

Medical Laboratory Science (MLSP)

DEGREES OFFERED

B.S. Degree in Medical Laboratory Science

CERTIFICATES

Medical Laboratory Science

FACULTY/ADMINISTRATION

Vivian Cornett, M.S., MLS (ASCP), MLT (ASCP), Director, Medical Laboratory Science Program; Adjunct Faculty

DEAN

Brent Sykes, Ed.D., Dean, College of Sciences and Education, Professor of Education

LOCATION

Harold Science Hall

Heritage Plaza

Noble Science Wing

ADMISSION TO THE MEDICAL LABORATORY SCIENCE PROGRAM

Prior to admittance to the Medical Laboratory Science program, a student must:

- Complete all courses with a grade of "C" or better,
- Have a minimum cumulative GPA of 2.75 (to be a competitive applicant), and
- Pass a federal background check, drug screen, and complete immunizations.

Graduation with a major in Medical Laboratory Science does not guarantee passing the ASCP certification exam. Visit our website for a copy of the handbook for the Medical Laboratory Science program at www.oc.edu/mls.

Students who have been convicted of a crime, other than a minor traffic violation, could be ineligible for admission to the university or for clinical rotations.

B.S. DEGREE IN MEDICAL LABORATORY SCIENCE

85 HOURS

The major consists of three years of university work, plus two semesters of Medical Laboratory Science courses.

An OC graduate with a Bachelor of Science degree in Medical Laboratory Science will:

1. Safely collect, process, perform, and report routine clinical laboratory tests on biological specimens and other substances with precision and accuracy under minimal supervision within a reasonable length of time.
2. Perform routine maintenance, standardization, calibration for laboratory equipment, and use necessary corrective methods to maintain and improve laboratory quality controls.
3. Use problem solving skills to recognize abnormal patient values and apply appropriate corrective procedures.
4. Correlate didactic instruction with laboratory results in the diagnosis and treatment of patients to understand the concept of total patient care.
5. Communicate well with all levels of personnel while demonstrating professional and ethical conduct and adhere to patient safety guidelines.
6. Stay current with new laboratory technologies and procedures through continuing professional education.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

19 HOURS CHEMISTRY

CHEM-1115 General Chemistry I
CHEM-1215 General Chemistry II
CHEM-3115 Organic Chemistry I
CHEM-4014 Biochemistry I with Lab

25 HOURS BIOLOGY

BIOL-1115 General Biology I: Cellular and Molecular Systems
BIOL-2314 Genetics
BIOL-2623 Anatomy and Physiology II
BIOL-3415 General Microbiology
BIOL-3431 Pathogenic Microbiology Lab
BIOL-3433 Pathogenic Microbiology
BIOL-4201 Immunology Lab
BIOL-4213 Immunology

3 HOURS MATHEMATICS

MATH-1223 Mathematical Functions and Modeling

3 HOURS STATISTICS

BIOL-2913 Biostatistics

3 HOURS BEHAVIORAL SCIENCE CHOSEN FROM

PSYC-1113 General Psychology I
SOCI-1113 Sociology

1 HOUR SCIENCE SEMINAR

GNSC-3711 Junior Science Seminar

31 HOURS MEDICAL LABORATORY SCIENCE

MLSP-4001 Introduction to Medical Laboratory Science
MLSP-4002 Pathogenic Microbiology Practicum
MLSP-4005 Clinical Immunology, Immunohematology and Lab
MLSP-4011 Urinalysis and Body Fluids
MLSP-4012 Blood Bank Practicum
MLSP-4015 Clinical Pathogenic Microbiology
MLSP-4021 Hemostasis
MLSP-4101 Medical Laboratory Science Certification Review
MLSP-4102 Laboratory Management
MLSP-4103 Clinical Chemistry
MLSP-4104 Hematology and Lab
MLSP-4112 Hematology, Coagulation, Urinalysis, and Body Fluids Practicum
MLSP-4122 Chemistry Practicum

COLLEGE OF SCIENCES AND EDUCATION

DEPARTMENT OF NATURAL SCIENCES

AREAS OF STUDY

Biology (BIOL)
Chemistry (CHEM)
Exercise Science (EXCS)
General Science (GNSC)
Physics (PHYS)

Pre-professional programs include pre-dental, pre-medical, pre-nursing, pre-occupational therapy, pre-optometry, pre-pharmacy, pre-physical therapy, pre-physician associate, pre-radiation technology, and pre-veterinary.

DEGREES OFFERED

B.S. Degree in Biochemistry
B.S. Degree in Biology
B.S. Degree in Biology with Pre-Medicine Emphasis
B.S. Degree in Exercise Science
B.S.E. Degree in Science Education, Biology

MINORS

Biology Chemistry Exercise Science
Pre-Healthcare Science

FACULTY

Samantha Adee, Instructor of Chemistry
Sara Alcon, Ph.D., Chair, Department of Natural Science; Associate Professor of Biology
Christopher Austin, Ph.D., Professor of Physics
Paul House, Ph.D., Associate Professor of Exercise Science
Jonathan Hunt, Ph.D., Associate Professor of Biology
Jarred Kelsey, PhD, Associate Professor of Chemistry
Lindsey Long, Ph.D., Associate Professor of Biology
Amanda Nichols, Ph.D., Professor of Chemistry
Katie Walker, D.P.T., Assistant Professor of Biology

PRE-PROFESSIONAL PROGRAMS

Pre-medical, pre-dentistry, and other programs: There are many professional programs available to students, requiring a variety of preparations for admittance. Students wanting to become physicians (M.D. or D.O.), dentists, optometrists, podiatrists, or pharmacists usually need to complete a B.S. degree before being accepted into the postgraduate programs.

Because requirements at different professional schools vary, you should decide at which schools you plan to seek admission and work closely with your faculty advisor to make certain that all entrance requirements are met. OC has an excellent record of acceptances into a number of professional schools. Physical therapy (PT) and occupational therapy (OT) programs are typically doctoral degree programs. Although the requirements for admission are diverse, OC offers the prerequisites for these programs. You should check with the institution offering a PT or OT program to determine the specific prerequisites. Because of the competition for entry into PT and OT programs, many students will have to complete a bachelor's degree in biology while fulfilling the specific prerequisites for entry into the PT or OT program. For students desiring to gain admission to the PT or OT programs at the University of Oklahoma Health Sciences Center, a B.S. degree must be completed.

ALLIED HEALTH SCIENCES AREAS

There are also many other allied health science fields, such as physician associate, medical laboratory, radiation technology, dental hygiene, cytotechnology, environmental health, and industrial hygiene. These programs require from two to four years of undergraduate education before acceptance into the professional program. OC offers the necessary pre-professional education for these programs. Faculty advisors will work with you to plan an acceptable program.

DEAN

Brent Sykes, Ed.D., Dean, College of Sciences and Education, Professor of Education

LOCATION

Harold Science Hall
Heritage Plaza
Noble Science Wing
Vose Hall

B.S. DEGREE IN BIOCHEMISTRY

79 HOURS

An OC graduate with a Bachelor of Science degree in Biochemistry will have:

1. Active Faith: Develop mature Christian attitudes toward scholarship, intellectual honesty, and ethical conduct that promote a life-long appreciation for learning in biochemistry.
2. Foundational Knowledge: Acquire a fundamental body of knowledge in the natural sciences, emphasizing biochemistry, chemistry, and physics.
3. Information Literacy: Effectively identify, locate, and evaluate information needed for preparing a scientific paper, presentation, or project, primarily using biochemistry resources.
4. Structured Reasoning: Understand the scientific method and use it to measure and evaluate experimental data in biochemistry, chemistry, and physics labs.
5. Critical and Creative Thinking: Solve problems and think critically in both experimental and theoretical situations.
6. Effective Communication: Communicate effectively the results of scientific research and study, primarily in biochemistry, chemistry, and physics.
7. Personal, Social, and Global Stewardship: Participate in curricular and extracurricular activities that enhance learning and preparation for careers in the natural sciences, primarily in biochemistry.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

4 HOURS MATHEMATICS

MATH-2114 Calculus I with Analytical Geometry

8 HOURS PHYSICS WITH LAB

PHYS-1114 College Physics I

or

PHYS-2514 Physics I

PHYS-1214 College Physics II

or

PHYS-2614 Physics II

21 HOURS BIOLOGY

BIOL-1115 General Biology I: Cellular and Molecular Systems

BIOL-2314 Genetics

BIOL-2913 Biostatistics

BIOL-3415 General Microbiology

BIOL-4223 Molecular Biology

BIOL-4301 Molecular Biology Lab

33 HOURS CHEMISTRY

CHEM-1115 General Chemistry I

CHEM-1215 General Chemistry II

CHEM-3114 Analytical Chemistry I

CHEM-3115 Organic Chemistry I

CHEM-3124 Organic Chemistry II

CHEM-4014 Biochemistry I and Lab

CHEM-4113 Introduction to Physical Chemistry I

CHEM-4123 Biochemistry II

5 HOURS SCIENCE SEMINAR

GNSC-1711 Freshman Science Seminar

GNSC-2711 Sophomore Science Seminar

GNSC-3711 Junior Science Seminar

GNSC-4712 Senior Science Seminar

8 HOURS TECHNICAL ELECTIVES CHOSEN FROM

BIOL-1215 General Biology II: Comparative Physiology and Ecology

BIOL-2244 Human Anatomy

BIOL-3115 Human Anatomy with Cadaver Dissection

BIOL-3224 Human Physiology

BIOL-3435 Pathogenic Microbiology

BIOL-4201 Immunology Lab

BIOL-4213 Immunology

BIOL-4411 Introduction to Research

BIOL-4412 Undergraduate Research

CHEM-4611 Research Methods

CHEM-4612 Research Methods

CHEM-4613 Research Methods

MATH-2214 Calculus II with Analytical Geometry

B.S. DEGREE IN BIOLOGY

73-74 HOURS

An OC graduate with a Bachelor of Science degree in Biology will:

1. Mature in active faith by developing a consistent and rational view of science and Christianity and demonstrating a lifestyle of service, discipleship, and integrity.
2. Demonstrate a fundamental body of knowledge in biological sciences by meeting or exceeding the national average in standardized tests of biology and chemistry.
3. Effectively acquire, critically analyze, and apply knowledge from primary scientific literature.
4. Conduct research using appropriate formatting, techniques, and development of research plans.
5. Design and execute experiments, interpret data, and formulate conclusions.
6. Effectively communicate personal research as well as scientific and medical advances to the scientific community or the general public.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

18 HOURS BIOLOGY FOUNDATION

BIOL-1115 General Biology I: Cellular and Molecular Systems
BIOL-1215 General Biology II: Comparative Physiology and Ecology
BIOL-2244 Human Anatomy
BIOL-2314 Genetics

15 HOURS CHEMISTRY

CHEM-1115 General Chemistry I
CHEM-1215 General Chemistry II
CHEM-3115 Organic Chemistry I

3-4 HOURS MATHEMATICS CHOSEN FROM

MATH-1223 Mathematical Functions and Modeling
MATH-2114 Calculus I with Analytical Geometry

3 HOURS BEHAVIORAL SCIENCE CHOSEN FROM

PSYC-1113 General Psychology I
SOCI-1113 Introduction to Sociology

3 HOURS STATISTICS

BIOL-2913 Biostatistics

4 HOURS PHYSICS WITH LABORATORY CHOSEN FROM

PHYS-1114 College Physics I
PHYS-2514 Physics I

5 HOURS SCIENCE SEMINAR

GNSC-1711 Freshman Science Seminar
GNSC-2711 Sophomore Science Seminar
GNSC-3711 Junior Science Seminar
GNSC-4712 Senior Science Seminar

22 HOURS UPPER DIVISION BIOLOGY TECHNICAL ELECTIVES

Must include at least six lecture and four lab courses; up to four hours can be satisfied by Undergraduate Research.

B.S. DEGREE IN BIOLOGY WITH PRE-MEDICINE EMPHASIS

81-82 HOURS

This major consists of four years of study in biochemistry, biology, chemistry, and physics that is designed to prepare students for future professional and graduate level programs. This major would be appropriate for students interested in a pre-med course of study.

An OC graduate with a Bachelor of Science degree in Biology with Pre-Med Emphasis will:

1. Mature in active faith by developing a consistent and rational view of science and Christianity and demonstrating a lifestyle of service, discipleship, and integrity.
2. Demonstrate a fundamental body of knowledge in biological sciences by meeting or exceeding the national average in standardized tests of biology and chemistry.
3. Effectively acquire, critically analyze, and apply knowledge from primary scientific literature.
4. Conduct research using appropriate formatting, techniques, and development of research plans.
5. Design and execute experiments, interpret data, and formulate conclusions.
6. Effectively communicate personal research as well as scientific and medical advances to the scientific community or the general public.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

18 HOURS BIOLOGY FOUNDATION

BIOL-1115 General Biology I: Cellular and Molecular Systems
BIOL-1215 General Biology II: Comparative Physiology and Ecology
BIOL-2244 Human Anatomy
BIOL-2314 Genetics

19 HOURS CHEMISTRY

CHEM-1115 General Chemistry I
CHEM-1215 General Chemistry II
CHEM-3115 Organic Chemistry I
CHEM-3124 Organic Chemistry II

3-4 HOURS MATHEMATICS CHOSEN FROM

MATH-1223 Mathematical Functions and Modeling
MATH-2114 Calculus I with Analytical Geometry

3 HOURS BEHAVIORAL SCIENCE CHOSEN FROM

PSYC-1113 General Psychology I
SOC1-1113 Introduction to Sociology

3 HOURS STATISTICS

BIOL-2913 Biostatistics

8 HOURS PHYSICS WITH LABORATORY CHOSEN FROM

PHYS-1114 College Physics I
PHYS-1214 College Physics II or
PHYS-2514 Physics I
PHYS-2614 Physics II

5 HOURS SCIENCE SEMINAR

GNSC-1711 Freshman Science Seminar
GNSC-2711 Sophomore Science Seminar
GNSC-3711 Junior Science Seminar
GNSC-4712 Senior Science Seminar

11 HOURS UPPER DIVISION BIOLOGY REQUIRED

BIOL-3224 Human Physiology
BIOL-4014 Biochemistry I with Lab
BIOL-4123 Biochemistry II

11 HOURS UPPER DIVISION BIOLOGY TECHNICAL ELECTIVES

Must include at least three lecture and two lab courses; up to four hours can be satisfied by Undergraduate Research.

B.S. DEGREE IN EXERCISE SCIENCE

78 HOURS

The major consists of three years of university work, plus two semesters of exercise science classes. An

OC graduate with a Bachelor of Science degree in Exercise Science will:

1. Demonstrate active faith through service, fellowship, and engagement.
2. Exhibit a breadth of knowledge with regard to exercise science by displaying competency via both oral and standardized check-point exams.
3. Be able to identify and utilize evidence-based, reputable, and reliable sources of health information.
4. Be able to determine which tests and markers are best used to assess an individual's health status, as well as the physiological rationale for these tests and markers.
5. Be able to recognize health issues or other problems in the world around them and formulate an evidence-based strategy to address and improve/resolve the issues.
6. Possess the ability to deliver nutrition and exercise information to health professionals, as well as the general public, via both personal conversation and professional presentation.
7. Be equipped to help others, both domestically and internationally, and prevent and manage health problems that are related to exercise.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

10 HOURS CHEMISTRY

CHEM-1115 General Chemistry I
CHEM-1215 General Chemistry II

18 HOURS BIOLOGY

BIOL-1115 General Biology I: Cellular and Molecular Systems
BIOL-2022 Medical Terminology
BIOL-2033 Nutrition
BIOL-2244 Human Anatomy
BIOL-3224 Human Physiology

3 HOURS MATHEMATICS

MATH-1223 Mathematical Functions and Modeling

3 HOURS STATISTICS CHOSEN FROM

BIOL-2913 Biostatistics
MATH-2913 Statistical Methods

3 HOURS BEHAVIORAL SCIENCE CHOSEN FROM

PSYC-1113 General Psychology I
SOCI-1113 Sociology

2 HOURS SCIENCE SEMINAR

GNSC-1711 Freshman Science Seminar
GNSC-2711 Sophomore Science Seminar

8 HOURS PHYSICS WITH LAB

PHYS-1114 College Physics I
PHYS-1214 College Physics II

22 HOURS EXERCISE SCIENCE

EXCS-1013 Introduction to Exercise Science
EXCS-3023 Biomechanics
EXCS-3033 Exercise Testing and Prescription
EXCS-3123 Health Issues
EXCS-3231 Exercise Physiology Lab
EXCS-3233 Exercise Physiology
EXCS-4133 Nutrition and Exercise
EXCS-4443 Capstone in Exercise Science

9 HOURS TECHNICAL ELECTIVES CHOSEN FROM

BIOL-1215 General Biology II: Comparative Physiology and Ecology
BIOL-2624 Principles of Microbiology
BIOL-3115 Human Anatomy with Cadaver Dissection
BIOL-4014 Biochemistry I with Lab
CHEM-3115 Organic Chemistry I
EXCS-2123 Public Health Nutrition Missions
EXCS-3013 Lifespan Nutrition
EXCS-3043 Strength and Conditioning

B.S.E. DEGREE IN SCIENCE EDUCATION - BIOLOGY

92 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED

An OC graduate with a Bachelor of Science in Education degree in Science Education - Biology will have:

1. Active Faith: Develop mature Christian attitudes toward scholarship, intellectual honesty, and ethical conduct that promote a life-long appreciation for learning.
2. Foundational Knowledge: Acquire a fundamental body of knowledge in the liberal arts and natural sciences, emphasizing science education in physical science, being successful in the completion of the university core curriculum, and passing the (Teacher Education Writing Exam) TEWE, as well as achieving a 3.0 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.
3. Information Literacy: Effectively identify, locate, and evaluate information needed for preparing a scientific paper, presentation, or project.
4. Structured Reasoning: Understand the scientific method and use it to measure and evaluate experimental data.
5. Critical and Creative Thinking: Solve problems and think critically in both experimental and theoretical situations.
6. Effective Communication: Communicate effectively the results of scientific research and study.
7. Personal, Social, and Global Stewardship: Participate in curricular and extracurricular activities that enhance learning and preparation for careers in science education.

The requirements for a minor in Professional Education must also be met.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

26 HOURS SCIENCE FOUNDATION

CHEM-1115 General Chemistry I
CHEM-1215 General Chemistry II
GNSC-2313 Earth Science
GNSC-2711 Sophomore Science Seminar
GNSC-3711 Junior Science Seminar
GNSC-4712 Senior Science Seminar
GNSC-4721 Science Modeling and Strategies
PHYS-1114 College Physics I
PHYS-1214 College Physics II

27 HOURS BIOLOGY

BIOL-1115 General Biology I: Cellular and Molecular Systems
BIOL-1215 General Biology II: Comparative Physiology and Ecology
BIOL-2244 Human Anatomy
BIOL-2314 Genetics
BIOL-3224 Human Physiology
BIOL-3415 General Microbiology

6 HOURS MATHEMATICS

MATH-1223 Mathematical Functions and Modeling
MATH-2913 Statistical Methods

5 HOURS OTHER COURSES

EDUC-4112 Literacy in the Secondary Content Areas
PSYC-2523 Developmental Psychology

3 HOURS METHODS COURSE

EDUC-4533 Methods of Teaching Science in Secondary Schools

25 HOURS PROFESSIONAL EDUCATION

EDUC-3121 Orientation to Teacher Education
EDUC-3122 The School in American Culture
EDUC-3131 Classroom Management Strategies I
EDUC-3213 Learning, Instruction, and Assessment
EDUC-3421 Educational Technology
EDUC-3723 Education of the Exceptional Child
EDUC-4013 Human Relations and Cultural Awareness
EDUC-4131 Applied Instructional and Assessment Strategies
EDUC-4231 Critical Issues in Education
EDUC-4331 Classroom Management Strategies II
EDUC-4718 Student Teaching in the Secondary Schools

FOREIGN LANGUAGE COMPETENCY - CHOOSE ONE:

High school foreign language - 2 years of same foreign language with a grade of "C" or better OR university credit - 3 hours foreign language or American Sign language with a grade of "C" or better.

COLLEGE OF SCIENCES AND EDUCATION

SCHOOL OF NURSING

AREAS OF STUDY

Nursing (NURS)

DEGREES OFFERED

B.S.N. Degree in Nursing

FACULTY

Toni Davis, Co-Chair, School of Nursing, D.P.N., Instructor of Nursing

Christy Hallock, M.S.N., Assistant Professor of Nursing

Rhea Ann Lee, M.S.N., Assistant Professor of Nursing Courtney McCoy, M.S.N., Assistant Professor of Nursing

Becky O'Neal, M.S., Co-Chair, School of Nursing, Assistant Professor of Nursing Trevy Rauch, M.S.N., Assistant Professor of Nursing

Beth Scott, M.S.N., Assistant Professor of Nursing

DEAN

Brent Sykes, Ed.D., Dean, College of Sciences and Education, Professor of Education

LOCATION

Heritage Village

ADMISSION TO THE NURSING PROGRAM, PRE-LICENSURE TRACK

In addition to meeting the criteria for admission to OC, you must meet the following requirements:

- A minimum GPA of 3.0
- Federal background check and drug screening
- TOEFL score of 500+ (PBT), 61+ (IBT), or IELTS 61+ for international students
- A rating of Proficient on the Test of Essential Academic Skills (TEAS) within the previous 12 months
- Required Immunizations
- A minimum grade of "C" in each of the required support courses

Students who have been convicted of a crime, other than a minor traffic violation, could be ineligible for admission to the university or for licensure in the state of Oklahoma. Contact the School of Nursing for further information. An applicant may be admitted on academic probation if their cumulative GPA is less than 3.0 following a review by a faculty committee. The faculty committee will review each application on a case-by-case basis. Considered factors are:

- College credits that are five or more years old.
- Returning to college after a gap in years.
- Required GPA in the last 60 hours.
- Required GPA only on the courses being used to meet BSN degree requirements.
- Current healthcare experience.

Progression Requirements

Students who earn grades of "D" or "F" in two NURS courses are discontinued from the School of Nursing.

Licensure Requirements

Graduation with a B.S.N. does not guarantee licensure. Students must pass the NCLEX-RN to earn a license. The B.S.N. program is approved by the Oklahoma Board of Nursing. Graduates of this state-approved program are eligible to apply to write the National Council

Licensure Examination (NCLEX) for registered nurses. Applicants for Oklahoma licensure must meet all state and federal requirements to hold an Oklahoma license to practice nursing. In addition to completing a state- approved nursing education program that meets educational requirements and successfully passing the licensure examination, requirements include submission of an application for licensure, a criminal history records search, and evidence of citizenship or qualified alien status. Oklahoma law only allows a license to be issued to U.S. citizens, U.S. nationals, and legal permanent resident aliens. Other qualified aliens may be issued a temporary license that is valid until the expiration of their visa status, or if there is no expiration date, for one year.

TRANSFER STUDENTS

Students transferring from other colleges and universities are accepted on a competitive basis. A conference with the Registrar's Office and the School of Nursing is required. An individual curriculum plan will be developed for transfer students. All transfer student applicants who have been previously enrolled in a school of nursing program will be asked to submit additional documents, including a letter of good standing with eligibility to return from the previous school of nursing. See the Nursing Handbook for a complete description of requirements, fees, and information on advanced placement.

B.S.N. DEGREE IN NURSING (PRE-LICENSURE)

93 HOURS

An OC graduate with a Bachelor of Science in Nursing degree will:

1. Exemplify Christian principles of compassion, service, integrity, and respect for the well-being of clients, peers, and self.
2. Synthesize critical thinking skills for professional nursing practice.
3. Communicate clearly, effectively, and appropriately with clients and other healthcare providers to promote positive client outcomes.
4. Provide appropriate and safe nursing care (clinically competent) to clients.
5. Demonstrate a leadership style consistent with academic preparation while adhering to the standards of the nursing profession.
6. Provide nursing care based on knowledge and appreciation of unique cultural variations.

Students must complete a minimum of 123 hours including the major, core, and minor if required. Elective hours may be needed to reach 123 hours.

20 HOURS SCIENCE

BIOL-1013 Principles of Biology I
BIOL-2033 Nutrition
BIOL-2523 Anatomy and Physiology I
BIOL-2623 Anatomy and Physiology II
BIOL-2624 Principles of Microbiology
CHEM-1104 Introduction to Chemistry

3 HOURS MATHEMATICS

MATH-1173 Quantitative Reasoning

3 HOURS STATISTICS CHOSEN FROM

BIOL-2913 Biostatistics
MATH-2913 Statistical Methods

6 HOURS PSYCHOLOGY

PSYC-1113 General Psychology I
PSYC-2523 Developmental Psychology

60 HOURS NURSING

NURS-1011 Introduction to Nursing
NURS-2003 Health Assessment
NURS-2013 Fundamentals of Nursing
NURS-2033 Pathophysiology and Pharmacology I
NURS-3013 Pathophysiology and Pharmacology II
NURS-3014 Mental Health Nursing
NURS-3015 Adult Nursing I
NURS-3024 Maternal-Infant Nursing
NURS-3025 Adult Nursing II
NURS-3034 Healthcare Missions and Christian Service
NURS-4005 Community Health Nursing
NURS-4012 Capstone in Nursing
NURS-4014 Child and Family Health Nursing
NURS-4023 Issues and Trends in Nursing
NURS-4024 Leadership and Management in Nursing
NURS-4025 Adult Nursing III
NURS-4033 Nursing Research and Evidence-Based Practice

After admittance into the nursing program, a student must maintain a cumulative GPA of 3.0. For more information, refer to the Nursing Student Handbook.

COLLEGE OF SCIENCES AND EDUCATION

DEPARTMENT OF PSYCHOLOGY AND FAMILY SCIENCE

AREAS OF STUDY

Family Science (FMST)
Psychology (PSYC)
Sociology (SOCI)

DEGREES OFFERED

B.S. Degree in Family Science
B.S. Degree in Family Science/Human Development
B.A. Degree in Psychology
B.S. Degree in Psychology

MINORS

Family Science
Human Development
Psychology

FACULTY

Allyson DePasse, M.S., Assistant Professor of Psychology
Bobby Kern, Ph.D., Chair, Department of Psychology and Family Science, Associate Professor of Psychology and Family Science
Ryan Newell, Ph.D., Professor of Psychology

DEAN

Brent Sykes, Ed.D., Dean, College of Sciences and Education, Professor of Education

LOCATION

Davisson American Heritage Building

B.S. DEGREE IN FAMILY SCIENCE

57 HOURS

The B.S. degree in Family Science is a pre-professional degree that emphasizes preparation for graduate school. Students who wish to pursue advanced degrees, either a master's degree or a doctoral degree, are encouraged to pursue this degree rather than the B.S. degree in Family Science/Human Development. With the growth of marriage and family graduate school programs, and the increasing influence of systems theory in psychology, the need to prepare students for study as marriage and family counselors is increasing.

An OC graduate with a Bachelor of Science degree in Family Science will:

1. Demonstrate knowledge of the dynamic nature of the family and of the conceptual framework on which current family relations theories are based.
2. Exhibit professional development in the research field by presenting an experimental research project at a state level conference.
3. Demonstrate a knowledge of various cultures and family structure types in our society.
4. Demonstrate knowledge of career opportunities applicable to Family Science majors on the bachelor and graduate degree levels.
5. Have GRE scores adequate for admission to most regional universities.
6. Gain admission to a graduate school commensurate with GPA and GRE scores.
7. Demonstrate spiritual development and service to church.
8. Develop an international perspective that encourages appreciation of individual differences.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

24 HOURS FAMILY SCIENCE

FMST-1113 Introduction to Family Science
FMST-2423 Parent-Child Relations
FMST-3523 Human Sexuality
FMST-3933 Cybernetics and Systems Theory
FMST-4123 Divorce and Stepfamily Relationships
FMST-4323 Introduction to Marital and Family Therapy
FMST-4653 Research Seminar (must be passed with a grade of "C" or better)
FMST-4713 Family Science Practicum

3 HOURS CHOSEN FROM

FMST-3723 Gerontology
PSYC-2523 Developmental Psychology

3 HOURS CHOSEN FROM

FMST-3613 Adolescence and Early Adulthood
FMST-3913 Family Development

6 HOURS FAMILY SCIENCE ELECTIVES

15 HOURS PSYCHOLOGY

PSYC-1113 General Psychology I
PSYC-3113 Introductory Psychological Statistics
PSYC-3213 Advanced Psychological Statistics
PSYC-3313 Abnormal Psychology
PSYC-4623 Experimental Psychology

6 PSYCHOLOGY ELECTIVES

B.S. DEGREE IN FAMILY SCIENCE/HUMAN DEVELOPMENT

48 HOURS, MINOR REQUIRED

This degree has as its emphasis a strong general education in the field of Family Science/Human Development and provides students with a broad, general approach to the study of the family. This degree is primarily intended for those students who do not wish to pursue graduate school.

An OC graduate with a Bachelor of Science degree in Family Science/Human Development will:

1. Demonstrate knowledge of the dynamic nature of the family and of the conceptual framework on which current family relations theories are based.
2. Gain approval as a Certified Family Life Educator (CFLE).
3. Demonstrate a knowledge of various cultures and family structure types in our society.
4. Demonstrate knowledge of career opportunities applicable to Family Science/Human Development majors on the bachelor's degree level.
5. Demonstrate spiritual development and service to the church.
6. Develop an international perspective that encourages tolerance and appreciation of individual differences.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

33 HOURS FAMILY SCIENCE

COMM-3003	Family Communication and Leadership
FMST-1113	Introduction to Family Science
FMST-2423	Parent-Child Relations
FMST-3513	Child Welfare
FMST-3523	Human Sexuality
FMST-4003	Family Resource Management
FMST-4043	Family Policy
FMST-4123	Divorce and Stepfamily Relations
FMST-4553	Family Life Education

3 HOURS FAMILY SCIENCE ELECTIVES

12 HOURS HUMAN DEVELOPMENT CHOSEN FROM

CHDV-3013	Nature and Characteristics of the Preschool and Primary Age Child
CHDV-4023	Topics in Early Childhood
FMST-3613	Adolescence and Early Adulthood
FMST-3723	Gerontology
FMST-3913	Family Development
PSYC-2523	Developmental Psychology
FMST-4713	Family Science Practicum
FMST-4733	Professional, Ethical, and Legal Issues

B.A. DEGREE IN PSYCHOLOGY - 43 HOURS, MINOR REQUIRED PLUS 6 HOURS OF SAME FOREIGN LANGUAGE

The B.A. degree in Psychology emphasizes a strong general education in the field of psychology for students who may not want to go on to graduate work. The program recognizes that graduate school is not for everyone and also recognizes the value of having a general liberal arts degree. Enough preparatory classes are required in the B.A. degree that if a student later decides to seek admission into a graduate school, only a small number of leveling courses will typically be required.

An OC graduate with a Bachelor of Arts degree in Psychology will:

1. Demonstrate a holistic view of the field of psychology and its place within the context of a distinctively Christian worldview through the integration of the science of psychology with the development of faith through personal experiences, volunteer opportunities and practicum placements.
2. Demonstrate knowledge of the major ideas and theories of psychology, including a scientific understanding of the methodologies used in our field and the major schools of psychology (with an emphasis placed on the 20th century, but not limited to this period).
3. Demonstrate analytical and critical thinking through effective written communication.
4. Demonstrate analytical and critical thinking through effective communication of independent, empirical research.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

28 HOURS PSYCHOLOGY

PSYC-1113	General Psychology I
PSYC-1211	Introductory Seminar in Psychology
PSYC-2223	General Psychology II
PSYC-3113	Introductory Psychological Statistics
PSYC-3313	Abnormal Psychology
PSYC-3413	Social Psychology
PSYC-3713	Personality
PSYC-4413	Biological Psychology
PSYC-4623	Experimental Psychology
PSYC-4713	History and Systems in Psychology

3 HOURS CHOSEN FROM

PSYC-2523	Developmental Psychology
PSYC-3613	Adolescence and Early Adulthood
PSYC-3723	Adult Development and Aging

3 HOURS CHOSEN FROM

PSYC-4213	Psychology of Learning
PSYC-4513	Cognitive Psychology

9 HOURS PSYCHOLOGY ELECTIVES

6 HOURS OF THE SAME FOREIGN LANGUAGE

Note: MATH-1223: Mathematical Functions and Modeling in the core curriculum is strongly recommended.

Note: Students are required to take the ETS Field Test in Psychology twice during their time in this program. The first administration is in PSYC-1211 and the second administration is in the final semester prior to graduation. As of April 2023 the cost of the ETS Field Test in Psychology was \$32.50 per administration.

B.S. DEGREE IN PSYCHOLOGY

58 HOURS

The B.S. degree is a pre-professional degree that emphasizes preparation for graduate school. Students who wish to pursue a master's degree or doctoral degree are encouraged to pursue the B.S. degree.

An OC graduate with a Bachelor of Science degree in Psychology will:

1. Demonstrate a holistic view of the field of psychology and its place within the context of a distinctively Christian worldview through the integration of the science of psychology with the development of faith through personal experiences, volunteer opportunities and practicum placements.
2. Demonstrate knowledge of the major ideas and theories of psychology, including a scientific understanding of the methodologies used in our field and the major schools of psychology (with an emphasis placed on the 20th century, but not limited to this period).
3. Demonstrate analytical and critical thinking through effective written communication.
4. Demonstrate analytical and critical thinking through effective communication of independent, empirical research.

Students must complete a minimum of 122 hours including the major, core, and minor if required. Elective hours may be needed to reach 122 hours.

31 HOURS PSYCHOLOGY REQUIRED

PSYC-1113	General Psychology I
PSYC-1211	Introductory Seminar in Psychology
PSYC-3113	Introductory Psychological Statistics
PSYC-3213	Advanced Psychological Statistics
PSYC-3313	Abnormal Psychology
PSYC-3413	Social Psychology
PSYC-3713	Personality
PSYC-4413	Biological Psychology
PSYC-4623	Experimental Psychology
PSYC-4653	Research Seminar
PSYC-4713	History and Systems in Psychology

3 HOURS CHOSEN FROM

PSYC-2523	Developmental Psychology
PSYC-3613	Adolescence and Early Adulthood
PSYC-3723	Adult Development and Aging

3 HOURS CHOSEN FROM

PSYC-4213	Psychology of Learning
PSYC-4513	Cognitive Psychology

18 HOURS PSYCHOLOGY ELECTIVES

3 HOURS MATHEMATICS

MATH-1223	Mathematical Functions and Modeling
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Students are required to take the ETS Field Test in Psychology twice during their time in this program. The first administration is in PSYC-1211 and the second administration is in the final semester prior to graduation.

Note: As of April 2023 the cost of the ETS Field Test in Psychology was \$32.50 per Administration.

COLLEGE OF SCIENCES AND EDUCATION MINORS AND CERTIFICATES

MINORS

DEPARTMENT OF NATURAL AND HEALTH SCIENCES

NATURAL SCIENCES PROGRAMS

BIOLOGICAL SCIENCES MINOR - 18 HOURS

Take 18 hours of Biological Sciences

CHEMISTRY MINOR - 18 HOURS

Take 18 hours of Chemistry, including at least 6 hours upper-division

EXERCISE SCIENCE MINOR - 18 HOURS

7 hours required

EXSC-3033 Exercise Testing and Prescription
EXSC-3231 Exercise Physiology Lab
EXSC-3233 Exercise Physiology

11 hours chosen from

BIOL-1115 General Biology I: Cellular and Molecular Systems
BIOL-2244 Human Anatomy
BIOL-3224 Human Physiology
EXSC-3023 Biomechanics
EXSC-3123 Health Issues
EXSC-4133 Nutrition and Exercise

PRE-HEALTHCARE SCIENCE MINOR – 21 HOURS

5 hours required

BIOL-1115 General Biology

4-5 hours chosen from

CHEM-1104 Introduction to Chemistry
CHEM-1115 General Chemistry I

3 hours required

MATH-1223 Math Functions and Modeling

8-9 hours chosen from (at least 3 hours upper division)

Any BIOL, CHEM, EXSC, PHYS

FAMILY SCIENCE MINOR - 18 HOURS

3 hours required

FMST-1113 Intro to Family Science

Take 15 hours of Family Science courses, including at least nine hours upper-division

HUMAN DEVELOPMENT MINOR - 18 HOURS

3 hours required

FMST-1113 Intro to Family Science

15 hours chosen from

CHDV-3013 Nature and Characteristics of the Preschool and Primary Age Child
CHDV-3023 Emergent Literacy
CHDV-4023 Topics in Early Childhood
FMST-3313 The Family
FMST-3513 Child Welfare
FMST-3613 Adolescence and Early Adulthood
FMST-3723 Gerontology/Adult Development and Aging
PSYC-2523 Developmental Psychology
PSYC-3313 Abnormal Psychology
PSYC-3413 Social Psychology

PSYCHOLOGY MINOR - 18 HOURS

6 hours required

PSYC-1113 General Psychology I
PSYC-2223 General Psychology II

12 additional hours of Psychology to be determined by the student's goals with the approval of the department chair.

SCHOOL OF EDUCATION

EDUCATION MINOR - 18 HOURS

Students wishing to pursue an Education minor must be approved by the Chair of the School of Education. A plan of study, as determined by the major advisor and the Chair of the School of Education, must be filed. Students must meet prerequisites as defined by the catalog. This is also suggested for Interdisciplinary Studies.

PROFESSIONAL EDUCATION MINOR - 18 HOURS

10 hours required

EDUC-3122 School in American Culture
EDUC-3131 Classroom Management Strategies
EDUC-3213 Learning, Instruction, and Assessment
EDUC-3421 Educational Technology
EDUC-3723 Education of the Exceptional Child

3 hours Psychology

PSYC-2523 Developmental Psychology

5 hours electives from Early Childhood Education, Education, and/or Elementary Education

CERTIFICATES

MEDICAL LABORATORY SCIENCES CERTIFICATE - 31 HOURS

Oklahoma Christian University's Medical Laboratory Sciences Certificate program enables holders of a bachelor's degree, with sufficient credits in required Biology courses, to complete courses in the Medical Laboratory Science field. Graduates will be able to sit for the Board of Certification with the American Society of Clinical Pathology or American Medical Technology (AMT) and are enabled to serve as technical supervisors after approved laboratory experience is acquired. Acceptance into the Medical Laboratory Science program is conditional upon having the requisite Biology credits/courses, a 3.00 GPA, and being able to pass a federal background check, drug screen, and complete immunizations.

31 HOURS MEDICAL LABORATORY SCIENCE

MLSP-4001 Introduction to Medical Laboratory Science
MLSP-4002 Pathogenic Microbiology Practicum
MLSP-4005 Clinical Immunology, Immunohematology and Lab
MLSP-4011 Urinalysis and Body Fluids
MLSP-4012 Blood Bank Practicum
MLSP-4015 Clinical Pathogenic Microbiology
MLSP-4021 Hemostasis
MLSP-4101 Medical Laboratory Science Certification Review
MLSP-4102 Laboratory Management
MLSP-4103 Clinical Chemistry
MLSP-4104 Hematology and Lab
MLSP-4112 Hematology, Coagulation, Urinalysis, and Body Fluids Practicum
MLSP-4122 Chemistry Practicum

COURSE DESCRIPTIONS

While OC will attempt to offer every course when noted in the catalog, there will be times when a course may not be offered when noted in the catalog or when a course might be offered at a time other than when noted in the catalog. Students are advised to check each semester's course schedule and to confer with their advisors regarding particular courses. Students should also be aware that the last number of a course's number is equal to the total number of credit hours awarded for that course, with the exception of the variable courses.

ACCOUNTING (ACCT)

2113 ACCOUNTING PRINCIPLES I

Purpose of accounting, recording transactions, preparing financial statements, the use of special journals and general and subsidiary ledgers, introduction of accounting principles, accounting for a merchandising firm, and payroll accounting. This course is offered in the fall and spring semester.

2213 ACCOUNTING PRINCIPLES II

Prerequisite: ACCT-2113. Continuation of Accounting Principles I. Partnership accounting, corporation accounting, additional accounting principles, analyzing and interpreting financial statements, development of management decision-making accounting data, introduction to cost accounting, and cost-volume-profit analysis. This course is offered in the fall and spring semester.

3113 INTERMEDIATE ACCOUNTING I

Prerequisite: ACCT-2213. Study of accounting theory and assumptions underlying Generally Accepted Accounting Principles related to financial statements, generally, and current assets, specifically. Special consideration is given to pronouncements of the Financial Accounting Standards Board, the American Institute of Certified Public Accountants, the American Accounting Association and the Securities and Exchange Commission. This course is normally offered in the fall semester.

3213 INTERMEDIATE ACCOUNTING II

Prerequisite: ACCT-3113. Continuation of Intermediate Accounting I. Study of Generally Accepted Accounting Principles related to plant assets, liabilities and capital, financial statement analysis, price level accounting, and leasing transactions. This course is normally offered in the spring semester.

3313 COST ACCOUNTING

Prerequisite: ACCT-2213. The development of cost and accounting data for internal use in planning, control, and decision making by managers. Topics and techniques studied are job-order and process cost accounting; accounting for materials, labor, and factory overhead costs; standard cost accounting; payroll; budgeting; responsibility accounting; cost-volume-profit analysis, and direct costing. This course is offered in the spring semester.

3413 INCOME TAXATION

Prerequisite: ACCT-2213. An introduction to the federal income tax, considering income, deductions, payment of tax, and other matters relating to personal income tax returns. This course is normally offered in the fall semester.

3513 ADVANCED FEDERAL TAXATION

Prerequisite: ACCT-3413. A continuation of the study of the federal income tax as it relates to corporations, partnerships and fiduciaries. Also included is the study of more specialized income tax problems and the federal Social Security, estate, and gift taxes. This course is normally offered in the spring semester.

3713 ACCOUNTING INFORMATION SYSTEMS

Prerequisite: ACCT-3113 and INFO-3613. Concepts underlying the analysis, design, use, control and audit of accounting information systems. The flow of accounting information through computerized information systems is emphasized. This course is normally offered in the fall semester.

4113 ADVANCED ACCOUNTING I

Prerequisite: ACCT-3113. A study of the application and theory of budgetary and fund accounting, with emphasis on governmental and not-for-profit entities. Other specialized accounting applications involving foreign operations and partnership accounting are also examined. This course is normally offered in the fall semester.

4213 ADVANCED ACCOUNTING II

Prerequisite: ACCT-3113. A study of advanced accounting problems related to consolidations, mergers, acquisitions, branch operations, segment reporting, interim reporting, and the Securities and Exchange Commission. This course is normally offered in the spring semester.

4313 ADVANCED COST ACCOUNTING

Prerequisite: ACCT-3313. Additional study in the development of cost and managerial accounting data for use in planning, control, and decision making by managers. The course includes the use of such tools as linear regression, simulation, and linear programming. It also covers capital budgeting, segment performance, and decision-making behavior under uncertainty. This course is normally offered in the summer semester.

4413 AUDITING

Prerequisite: ACCT-3113. Preparation toward a professional accounting career as a Certified Public Accountant in examining and rendering professional opinions on the fairness of organizations' financial statements. The course emphasizes the nature of auditing, internal control systems, auditing techniques and evidence, audit working papers and reports, and professional ethics and independence. This course is normally offered in the fall semester.

4713 DATA ANALYTICS IN ACCOUNTING

Prerequisite: ACCT-3113. The course is designed to provide students with a basic understanding of how data analytics is used in the accounting and finance profession. Students will be exposed to terminology, processes, and common data analytics tools relevant to various accounting functions. The main goal of this course is to provide students with a skillset that will enable them to leverage big data to assist in financial analysis and business decisions.

4990 INTERNSHIP IN ACCOUNTING

Prerequisites: Admission to Division and School of Business Upper Division, completion of ACCT-3113 and approval of the advisor and dean. Supervised and approved accounting internship with firm or organization; written and oral reports are required along with employer evaluation. 30 hours of work required for each hour of credit with a maximum of 3 credit hours. This course is offered as needed.

ART AND DESIGN (ARTS)

1103 DIGITAL IMAGING I

An introduction to the use of computer hardware, software, and peripherals for the production of visual images. Students research and practice computer operations and produce digital visuals using both painting and drawing software applications. This course is normally offered every semester.

1113 FUNDAMENTALS OF DRAWING

An introduction to the fundamental approaches to drawing with attention given to the concepts and processes that constitute the language of visual expression. This course is normally offered in the fall semester.

1213 FIGURE DRAWING

A study of the human form with attention given to the concepts and processes that constitute the language of visual expression. This course is normally offered in the spring semester.

1313 GAME DESIGN THEORY

An introduction to foundational game design principles, including rule development, interactive mechanics, player psychology, and how purpose-driven, meaningful decision-making is the key to game design.

1413 ELEMENTS OF VISUAL THINKING

A study of the elements of art. Studio work includes two-dimensional experimentation and exercises that nurture creative visual expression, which integrate critical discourse through the development of the language of art and design. This course is normally offered in the spring semester.

1623 INTRODUCTION TO INTERIOR DESIGN

An overview of the interior design profession and an introduction to basic graphic communication skills, including hand drafting, with experiences in observing professional designers, producing scaled drawings of floor plans, and application of the elements and principles of design. This course is normally offered in the fall semester.

1643 INTERIOR TEXTILES, MATERIALS, AND FINISHES

A study of interior textiles (fabrics and upholstery). Fabric content, properties, construction process, dyeing, and printing are examined. Basic building materials (wood, glass, metal, masonry, etc.) as well as wall coverings and hard floor treatments and their properties and uses will be addressed. Students will learn through case studies and examples to measure and figure correct amounts of materials to order. This course is normally offered in the spring semester.

1653 COMPUTER AIDED DESIGN

Prerequisites: ARTS-1623, permission of instructor. Use of industry software in the creation of two-dimensional representation of built forms and spaces for interiors. This course is normally offered in the spring semester.

2013 SURVEY OF VISUAL CULTURE

Survey of Visual Arts is an introductory art appreciation course that will overview the major works of art and cultural ideas from a global perspective. Lectures and presentations will cover a broad range of disciplines including painting, architecture, film, photography, product design, graphic communication, and digital design. This course is normally offered in the spring semester.

2123 RENDERING IN PERSPECTIVE

Prerequisites: ARTS-1623 and ARTS-1643 or permission of instructor. A study of rendering materials, methods, and techniques and how they relate to a 1-, 2-, 3-point perspective. The course will explore color theory as well as shade and shadow elements as they are used with various mediums such as marker, colored pencil, ink, and mixed mediums. Advanced problems in rendering and visual presentation are explored throughout the course. This course is normally offered in the spring semester.

2133 INTRODUCTION TO GAME TECHNOLOGY

Prerequisites: ARTS-2743. Introduction to the tools and technology for developing 3D digital models, characters, animations, and environments to be used in real time interactive media such as games and simulations. Basic drawing skills and knowledge of 3d modeling or similar 2D graphics software are required. This course is normally offered in the spring semester.

2143 DIGITAL PAINTING

Prerequisite: ARTS-2743. This course introduces digital painting and the use of popular computer painting software, covering both basics of the program and onscreen painting. The class focuses on image manipulation and painting tools and translates traditional painting techniques to the computer. Exercises emphasize techniques that enhance students' understanding of the software interface, ability to visualize and sketch out compositions, control light and value, and create a representational image. The process taught has direct application to illustration, feature films, video games, graphic novels, etc. Additionally, students learn about visual communication and how to expand their ability to communicate their visual ideas to collaborators. This course is normally offered in the fall semester.

2223 INTRODUCTION TO COMMUNICATION DESIGN

Prerequisites: ARTS-1103 and ARTS-1413. An introduction to the advertising, graphic design, and new media industry. Studio work includes print media design and graphic design with directed outcomes based upon research, strategy-based conceptualization, and execution. This course is normally offered in the fall semester.

2233 TYPE AS VISUAL LANGUAGE

Prerequisites: ARTS-2223 and ARTS-2323. A study of letterforms and fundamental typographic principles. Studio work includes typographic expression and communication with and without image and its relationship to message and purpose. This course is normally offered in the spring semester.

2243 INTERACTIVE MEDIA DESIGN I

Prerequisite: ARTS-1103 and ARTS-1413. Introduction to the aesthetic and technical concerns of interactive media production: human-computer interactivity, website design and development, usability issues, and dynamic narrative. Students design, produce, and deploy interactive projects. This course is normally offered in the fall semester.

2423 HISTORY OF PHOTOGRAPHY AND MOTION PICTURES

This class entails a chronological study of the photographic arts and motion pictures. The course content examines the technological innovations and famous innovators from photography's introduction. Lectures analyze photos and motion pictures from various critical/historical perspectives to offer a comprehensive overview of important photographers, fine artists, photojournalists, and filmmakers of the modern age. This course is offered in the fall semester.

2443 CONSTRUCTION MATERIALS AND DETAILS

Prerequisites: ARTS-1623 and ARTS-1643 preferred but not required. This course is a study of materials used in the design of interior spaces. It includes fire resistant qualities, acoustical properties and the construction of materials used in finishes and furnishings, as well as qualities important to sustainable design issues. Emphasis on writing specifications for FF&E for non-load bearing construction. Emphasis is also placed on technical, construction drawings to include elevations, section drawings, etc. The course is normally offered in the fall semester of odd numbered years.

2513 PAINTING I

Prerequisites: ARTS-1113, ARTS-1213, and ARTS-1413 or permission of instructor. A study of materials, techniques, and concepts fundamental to painting. The course encourages students to originate and produce a portfolio of paintings experimenting with various processes and historical ideas. This course is normally offered in the spring semester.

2523 DIGITAL SCULPTING

Prerequisites: ARTS-2743. A study of the elements of art and their supportive elements. Studio work includes three-dimensional experimentation and exercises that relate ideas, objects, material, and space with form studies that examine organic and constructed elements. This course is normally offered in the fall semester.

2623 RESIDENTIAL INTERIOR DESIGN I

Prerequisites: ARTS-1113, ARTS-1413, ARTS-1623, ARTS-1653 or concurrent enrollment. A study of residential design with emphasis on kitchen and bath planning. This course is normally offered in the fall semester.

2653 SPACE PLANNING AND CODES

Prerequisites: ARTS-1623, ARTS-1653. A study of the application of human factors, space standards, and space planning principles to residential and commercial environments. This course is normally offered in the spring semester.

2673 RESIDENTIAL INTERIOR DESIGN II

Prerequisites: ARTS-1623, ARTS-1653, and ARTS-2623. A reinforcement of objectives applied in Residential Design I, this course will further the development of building structures as they pertain multi-use dwellers (apartments, senior living, etc.) and larger scale homes up to 5,000 square feet. Attention to estimating, budgets, and understanding business transactions with trades people will be integrated into working projects. More in-depth detail of larger scale projects provides students with working knowledge of information necessary to design and construct working drawings in residential construction with emphasis on a holistic approach to the built environment. Various dwelling unit styles will be addressed as well as energy efficiency, etc.

2663 ARCHITECTURAL GRAPHICS

Prerequisites: ARTS-1643. Further development of drafting skills with emphasis on hand lettering, dimensioning, materials delineation of floor plans, drawing elevations, sections, and perspectives. This course is normally offered in the spring semester.

2743 3D MODELING I

Prerequisites: ARTS-1103 or CMSC-1113. Creation of virtual objects and environments. Students use the computer to model, texture, light, render, and animate dynamic objects and scenes in digital three-dimensional space. For gaming and animation majors, this course is normally offered in the spring semester. For interior architecture majors, this course is normally offered in the fall semester.

2753 TEXTURING, RENDERING, AND LIGHTING

Prerequisite: ARTS-2743. A studio course focused on 3D lighting and surfacing techniques using industry standard software. Topics covered include the relationship between surface and light, the effects of lighting and surfacing on a 3D scene, types of lights and shadows, surface qualities, textures, and mapping, and industry lighting techniques, including recreating real-world lighting. Students will also learn lighting and surface design and workflow management. This course is normally offered in the spring semester.

3043 ARTS AND POLITICS I

An overview of artists, philosophers, and political/cultural movements from the French Revolution to the close of World War I. This class will examine specific artists and aesthetic tendencies that span the 18th, 19th, and early 20th centuries. Lectures and other course content will analyze the variance of approaches and sensibilities that emerged in relation to the changing impact of modernization. This course is offered as needed.

3053 ARTS AND POLITICS II

An overview of artists, philosophers, and political/cultural movements from World War I through the 20th and 21st centuries. This course will examine specific artists and aesthetic tendencies of modernism. Lectures and other course content will analyze the changing global sensibilities and artistic responses that emerged from contemporary technological culture. This course is offered as needed.

3163 ANIMATION PRINCIPLES

Prerequisite: ARTS-1103 and ARTS-2743. History, theory, and technique of traditional and contemporary approaches to animation. Includes studies in fundamentals of digital storytelling, physics, animation aesthetics, expression, kinetics, and motion. Projects include work in digital 2D and 3D, stop-motion, rotoscoping, and other animation environments. This course is normally offered in the fall semester.

3173 3D MODELING AND ANIMATION II

Prerequisite: ARTS-2743 and ARTS-3163. In this course students will study and practice techniques used in character design, modeling, and rigging using 3D computer software. Advanced 3D modeling, shading, rendering, and character-design skills are developed in conjunction with traditional story, animation, lighting, and cinematography methods. Designs for game animation will be compared with designs for film and video. Action and motion sequences will be created and studied. This course is normally offered in the spring semester.

3213 PAINTING II

Prerequisite: ARTS-2513. A further study of the techniques and processes of painting with special attention to the development of the student's direction and portfolio development. This course is normally offered in the spring semester.

3243 GRAPHIC DESIGN

Prerequisite: ARTS-2233. A study of integrating message, typography, and image through conceptual innovation. Studio work includes necessary vehicles for information, narrative, promotion, and marketing. This course is normally offered in the fall semester.

3253 PRINT AND DIGITAL DELIVERY DESIGN

Prerequisite: ARTS-3243. A study of merging written messages with design. Studio work includes media bought print applications with ancillary forms of design communication. This course is normally offered in the fall semester.

3263 ADVANCED GRAPHIC DESIGN

Prerequisite: ARTS-3243. A further study of blending messages and content with design and application. Studio work is a continuation of necessary vehicles for information, narrative, promotion, and marketing, sometimes in relation to integrated design through several platforms of communication. This course is normally offered in the spring semester.

3333 HISTORY OF DESIGN

A comprehensive chronological survey of the impact and transformation of design upon Western civilization. Ideas and changes are explored through disciplines such as graphic design, industrial design, product design, photography, architecture, furniture, and fashion. This course is normally offered in the spring semester.

3343 ANCIENT TO MODERN ART HISTORY

A focus on the pivotal artists, movements, and concepts from each era. Art, as it has been shaped by cultural, social, political, and economic factors will be examined in a chronological study from pre-history to mid-twentieth century. This course is normally offered in the fall semester of even-numbered years.

3353 CONTEMPORARY ART

A chronological study of modern art from 1945 to the present. In-depth study will be on the many artists, movements, critical theories, cultural conditions, and global issues that have shaped art of the modern and postmodern age. This course is normally offered in the fall semester of odd-numbered years.

3363 PHOTOGRAPHY I

Course will focus on production of portfolio/exhibition quality photographic images. Students will work in a digital format with an emphasis on developing/exploring personal direction in fine art photography. This course is normally offered in the fall semester.

3383 MOTION IMAGERY

Prerequisite: ARTS-2743 and ARTS-3173. Introduces students to the principles and elements of motion design through studio practices at beginning and advanced levels. The first phase, "type in motion," emphasizes the relationship between typography principles and animation fundamentals. The second phase is an advanced applied approach to the language and principles of motion building upon existing knowledge in the first phase: synthesizing the language of motion simultaneously with an emphasis on narrative and narrative structure. In addition to stressing systems, structure, and synthesis of text and image for time-based media, the course also provides knowledge and skills in digital creativity. This course is offered in the spring semester.

3393 GAMING HISTORY AND DEVELOPMENT

This course provides a historical and critical approach to the evolution of video game design and animation from its beginnings to the present. It brings together cultural, business, and technical perspectives. Students should come away from the course with an understanding of the history of this medium, as well as insights into design, production, marketing, and sociocultural impacts of interactive entertainment and communication. The course will offer reading, discussion, guest presentations and projects on the developing culture and technology of animation and video game design. Historical contexts include entertainment media, computing technology, applications of gaming technology, and business history. This class will be offered in the fall semester.

3423 HISTORY OF ANIMATION

This course provides a historical and critical approach to the evolution of animation from its beginnings to the present. It brings together cultural, business, and technical perspectives. Students should come away from the course with an understanding of the history of this medium, as well as insights into design, production, marketing, and socio-cultural impacts of sequential based storytelling and communication. The course will offer reading, discussion, guest presentations and projects on the developing culture and technology of animation. This course is normally offered in the summer semester.

3443 INTERACTIVE MEDIA DESIGN II

Prerequisite: ARTS-2243. Study of interactive design and further exploration into production capabilities of industry standard web authoring software. Topics include: dynamic content, file management, internet typography, development of user interfaces, site maps, external web functionality and trouble-shooting. This course is intended for designers who wish to consolidate and apply their prior knowledge and skills of interactive design. This is a culminating experience and designers are expected to demonstrate sophisticated interactive design decisions and produce final works that demonstrate a high level of expertise and achievement. This course is normally offered in the spring semester.

3453 TEAM GAME PRODUCTION I

Prerequisite: ARTS-2743 or instructor permission. This course provides a foundation in the game development process, including planning, pipelines, and documentation for game projects, game technology, artificial intelligence, and user interface design, game testing, project and asset management, team dynamics, and usability analysis. Students apply game design and development skills to create a 2D and 3D game demo as part of small project teams. This course is offered in the fall semester.

3523 CONCEPTUAL ILLUSTRATION

Prerequisite: ARTS-1213. A study of materials, techniques, processes, and ideas fundamental to the discipline of illustration, with special attention to creating selected works for editorials, posters, covers, and collateral materials. This course is normally offered in the fall semester.

3533 HISTORICAL INTERIOR DESIGN I

A study of decorative arts, furniture, and interiors as they have evolved from ancient Egypt up to the Italian Renaissance. Emphasis is given to the ways ancient motifs and decorative designs have been continually repeated and used from the original historic periods to the present. This course is normally offered in the fall semester of even numbered years.

3543 HISTORICAL INTERIOR DESIGN II

A study of historical periods, surveying the Italian Renaissance through the 18th Century; acquainting students with terminology, motifs, furniture, architecture, and stylistic differences as they relate to time periods. This course is normally offered in the spring semester of odd numbered years.

3613 INTERIOR SYSTEMS

Prerequisites: ARTS-1623 and ARTS-1653. A study of interior lighting design, acoustics, fire suppression, plumbing, electric, and HVAC (heating, ventilation and air conditioning) systems. Projects are assigned to help students learn how to use these systems and develop coordinating contract documents. The course also covers natural energy sources with attention to insulation techniques and the structural types of passive-solar and earth-sheltered. This course is normally offered in the spring semester.

3623 COMMERCIAL DESIGN I

Prerequisites: ARTS-1643, ARTS-1653, and ARTS-2653. A study of contract/commercial design and space planning principles. Projects involve public or business spaces, with barrier-free design principles included. Drafting and presentation skills are further reinforced. This course is normally offered in the fall semester.

3633 CONTEMPORARY INTERIOR DESIGN

A study of design movements affecting furniture and interiors from 1900 to present, emphasizing the evolution in design concepts and philosophies of eminent architects and designers. This course is normally offered in the fall semester of odd-numbered years.

3643 COMMERCIAL DESIGN II

Prerequisite: ARTS-3623. A study of non-residential interiors with an emphasis on programming, light safety and building codes, barrier-free design and space and activity planning of the interior environment. This course is normally offered in the spring semester.

3703 MOTION GRAPHICS

Use of software (After Effects and Photoshop) in the creation of motion graphics for broadcast and multimedia. This course is normally offered in the fall semester of odd numbered years.

3773 THE BUSINESS OF BRANDING YOURSELF

Prerequisite: Junior standing. A study directed to the challenges of seeking employment in creative industries after graduation, establishing a business, and developing healthy professional and personal finance practices. This course is normally offered in the spring semester.

4023 DIGITAL DESIGN CAPSTONE

This studio course will guide the student in the production of a senior-level portfolio of works from the various design disciplines that the degree integrates. The course portfolio should exemplify a thorough understanding of each of the areas of design, and the execution of those concepts/ tools into finished work. This course will also help the student on the professionalism of their oral presentation, and deployment of their undergraduate portfolio.

4213 OPEN STUDIO

Prerequisite: ARTS-3213. Advanced painting course emphasizing the production of a finished portfolio with preparation of a student's senior exhibition. This course is normally offered in the fall semester.

4223 GAMING AND ANIMATION STUDIO

Prerequisites: ARTS-3173, ARTS-3453, Senior standing and permission of instructor. Students participate in the new media production process for design and development of client driven projects in a team environment. This course is offered in the fall semester.

4253 INTEGRATED MARKETING DESIGN

Prerequisite: ARTS-3253. A study of integrating various vehicles of communication into a single message. Studio work includes advertising, graphic design and new media design to market a product, service or idea based upon research and strategy-based concepts. This course is normally offered in the spring semester.

4523 VISUAL STORYTELLING

Prerequisite: ARTS-3523. An advanced illustration studio class that concentrates on producing and refining a body of work to augment the student's portfolio. Continued focus on traditional vehicles of illustration such as editorials, posters, and collateral materials and exploration of nontraditional approaches to the illustration medium. This course is normally offered in the spring semester.

4613 INTERIOR DESIGN PROFESSIONAL PRACTICES AND PORTFOLIO

Prerequisite: ARTS-3643. A history and introduction of interior design career management focusing on professional responsibilities, professional organizations, management of office processes, client relationships, and overview of establishing and organizing a business. This course will culminate with a portfolio presentation to a panel of professionals. This course is normally offered in the spring semester.

4633 SENIOR INTERIOR DESIGN STUDIO

Prerequisite: ARTS-3643, Senior standing. Designing interior solutions related to non-residential interiors. This senior-level course will also survey business procedures, contract services, and administration and preparation for job market entry as applied to the practice of Interior Design. This course is normally offered in the fall semester.

4643 SENIOR EXHIBIT

Prerequisite: Senior standing and instructor's permission. A showing of visual works developed over the course of the student's college years. This exhibit and reception are the culmination of the student's collegiate experience. This course is offered as needed.

4663 GAMING AND ANIMATION CAPSTONE

Prerequisite: ARTS-3173 and ARTS-4223. Examination of gaming and animation topics related to ethical concerns includes: portfolio and resume development, preparations for the workforce and/or graduate studies, and conducting results with the class. This course is offered in the spring semester.

4811 GRAPHIC DESIGN INTERNSHIP

Prerequisite: ARTS-3243. An internship with an advertising agency or graphic design studio. 1 credit hour for every 50 hours the student works, not to exceed 3 credit hours per semester. This course is offered as needed.

4821 INTERIOR DESIGN INTERNSHIP

Prerequisite: Junior or Senior standing. An internship with a residential or commercial design firm. 1 credit hour for every 50 hours of student work, not to exceed 3 credit hours per semester. This course is offered as needed.

4831 ART INTERNSHIP

Prerequisite: Junior or Senior standing. An internship with a gallery, museum, theme park, theater production company, frame shop or art supply company. 1 credit hour for every 50 hours the student works, not to exceed 3 credit hours per semester. This course is offered as needed.

4840 GAMING AND ANIMATION INTERNSHIP

Prerequisite: Permission of instructor. An internship with a new media department. 1 credit hour for every 50 hours the student works, not to exceed 3 credit hours per semester. This course is offered as needed.

BIBLE (BIBL)

1003 INTRODUCTION TO CHRISTIANITY (TEL ONLY)

This course is designed to serve as a valuable introduction to Christianity for believers and non-believers alike. Topics include 1) an introduction to Christianity in general, 2) foundational lessons on the Bible and the origins of Christianity, 3) an understanding of the core beliefs and practices of early Christians, 4) a period-by-period snapshot of how those core beliefs and practices evolved and the historical/philosophical/scientific/cultural events that shaped that evolution, 5) a recap of where Christians are today regarding doctrine and practice (retracing steps from the early church to today), and 6) how Christians confront issues of faith in the 21st century.

1013 ISRAEL AND GOD'S KINGDOM: OT SURVEY

This course introduces students to the grand narrative of the Christian worldview as established in the Old Testament while learning to read scripture in its historical and literary context. Special attention will be given to major themes of the Old Testament including Creation, Abrahamic Covenant, Sinai Covenant, Davidic Covenant, Israel's history and prophetic critique as well as the anticipation and arrival of God's coming King and Kingdom. This class is required in the first semester of freshman year.

1033 JESUS, THE CHURCH AND GOD'S KINGDOM

This course continues the grand narrative of the Christian worldview as established in the New Testament while learning to read scripture in its historical and literary context. Students will examine how Jesus' life and ministry fit within Old Testament prophecy and themes concerning the Kingdom of God, while showing how the first century church worked to embody the teachings of Jesus. The course will give special attention to the Gospels, Acts, and letters of the New Testament. This course is required in the spring semester of the freshman year.

1213 LIFE OF CHRIST: MATTHEW

This course is a study of the life and teachings of Jesus as set forth in the Gospel of Matthew. Special attention is given to the deity and humanity of Jesus, his miracles, his teachings, especially focusing on the Sermon on the Mount, and his death and resurrection. This course is normally offered in the fall semester.

2103 THE CHRISTIAN LIFE IN GOD'S KINGDOM

This course focuses on how Christians embody Kingdom ethics in their personal and professional lives. Through deep engagement of the Sermon on the Mount, and other practical/ethical texts of the New Testament, students explore Christian ethics and values, while learning to discern their own calling for their lives. Students will engage the diversity of modern worldviews, comparing them to the Christian worldview. This course is required in either the fall or spring semester of the sophomore year.

2303 STORY OF THE OLD TESTAMENT (TEL)

Begins with a survey of periods of Bible history to provide a structure to connect the Bible story from creation through redemption by Christ and the early history of the church. The course develops the first twelve periods which cover the Old Testament. This study considers essential scripture texts in each period, principles in interpreting these scriptures, and related history and archaeology. This course is normally offered in the fall semester.

2313 STORY OF THE NEW TESTAMENT (TEL)

Follows the Story of the Old Testament and develops the last three periods of Bible history: intertestamental, life of Christ and history of the early church. The course also studies briefly the history of the church since the end of the first century, including both the Reformation Movement and the Restoration Movement. The course also discusses important current issues in the church. This course is normally offered in the spring semester.

2323 INTRODUCTION TO THE OLD TESTAMENT

This course aims to prepare students with a general understanding of the Ancient Near East (ANE) historical and cultural backdrop to the Hebrew Bible/Old Testament. Key themes include centers of civilization, covenants, ancient cosmogonies, empires, neighboring religions, and wisdom traditions. The student will gain an appreciation for the overall story of Israel's relationship with God, a foundation through which to approach the interpretation of Israel's scriptures, and an understanding of the connection between these texts and the New Testament.

2333 INTRODUCTION TO THE NEW TESTAMENT

Follows the Story of the Old Testament and develops the last three periods of Bible history: intertestamental, life of Christ and history of the early church. The course also studies briefly the history of the church since the end of the first century, including both the Reformation Movement and the Restoration Movement. The course also discusses important current issues in the church. This course is normally offered in the spring semester.

3013 PRINCIPLES OF BIBLICAL INTERPRETATION

Prerequisite: BIBL-3203. A study of the valid rules and principles governing correct biblical exegesis and application. The course is designed to lead the student into a better understanding of how to make applications of biblical teachings and principles. This course is normally offered in the spring semester.

3043 SCRIPTURE AND MISSION OF GOD

This course examines the Biblical story using a missional hermeneutic. Special attention is given to the Biblical texts which bear witness to God's mission in the world and which equip Christians and Christian communities to participate in that mission cross-culturally.

3113 READING THE BIBLE RESPONSIBLY

The Bible is a foundational document for Western culture. It is widely used (and misused) to make decisions, shape ethics, and even inform public policy. This course gives students the tools and wisdom needed to be more responsible Bible readers and to evaluate claims made from scripture. Students will synthesize their coursework in a final project. Composition and reading outside of class will be required. This course counts as a Bible credit in the University's general education requirements.

3213 THE PENTATEUCH

An intensive study of the first five books of the Old Testament, with emphasis on key theological themes: creation, sin, God's promises to Abraham, liberation, and the purpose of the Law. This course is normally offered in the fall semester.

3263 HEALING AND FORGIVENESS IN SCRIPTURE

This course introduces students to the issues of healing of physical diseases in Scripture, especially the healing activity of Jesus, and ancient understandings of asking and receiving divine forgiveness. Students will learn about the difference between how healing and forgiveness was understood during the Second Temple Jewish period and be able to contrast that with how they are understood in contemporary society. This course is normally offered every semester.

3353 HISTORICAL BOOKS OF THE OLD TESTAMENT

This course examines the historical books of the Old Testament, Joshua through Nehemiah. Attention will be given to the historical development of Israelite society, Biblical historiographies, and to close readings of the texts themselves.

3363 JESUS AND THE GOSPELS

This course introduces students to the issues of historical Jesus research and the Christology of the four Gospels. Students will engage with several approaches that attempt to reconstruct the life of Jesus and the scholarship that describes how the Gospels came to portray Jesus for the distinctive audiences. Special attention will be given to memory studies and the traditions about Jesus that were used in the construction of the Gospels, Colossians, and Philemon. Emphasis is given to each epistle's outstanding teachings and practical value. This course is normally offered in the fall semester of odd numbered years.

3443 BIBLE AS LITERATURE

In this course students will exam the Bible not only as God's inspired word, but also as a literary text. Critiques and analyses from biblical scholars and scholars of literature will be explored. In addition, students will write about biblical texts paying attention to the literary details in these texts. Same as ENGL-3443. This course is normally offered in the spring semester.

3363 JESUS AND THE GOSPELS

This course introduces students to the issues of historical Jesus research and the Christology of the four Gospels. Students will engage with several approaches that attempt to reconstruct the life of Jesus and the scholarship that describes how the Gospels came to portray Jesus for the distinctive audiences. Special attention will be given to memory studies and the traditions about Jesus that were used in the construction of the Gospels, Colossians, and Philemon. Emphasis is given to each epistle's outstanding teachings and practical value. This course is normally offered in the fall semester of odd numbered years.

3503 JESUS, POLITICS, AND THE LIFE OF FAITH

This course examines the political environment of Jesus and the readers of the Gospel of Mark in the Roman Empire, with special attention to how Jesus' announcement of the in-breaking of God's rule subverts Roman claims of divine power and authority. In Mark's gospel Jesus calls his followers to faith that is courageous, even in the face of imperial threats of death. Students in this course will learn how to articulate a Christian model of a life of faith that courageously negotiates in and with contemporary political environs. This course is offered as needed.

3613 OLD TESTAMENT WISDOM BOOKS

This course examines the wisdom and poetic literature of ancient Israel. Books include Job, Psalms, Proverbs, Ecclesiastes, and the Song of Solomon.

3763 GRECO ROMAN HISTORY; EARLY CHRISTIAN CONTEXT

This course will examine the history, literature, rulers, major events, and cultural values of Greco-Roman society during the time leading up to and during the rise of the Jesus movement and early Christianity (4th century BCE to 2nd century CE). Since early Christianity arose within the context of Judaism, special attention will be given to the development of Judaism during the period when Greeks and Romans held political control over Palestine and how Jewish identities were reconstructed. Attention will also be given to the Roman Imperial context, which influenced the expression of early Christianity.

4413 DANIEL-REVELATION

A study of the books of Daniel and Revelation as examples of apocalyptic literature from the Old and New Testaments. The content of these books is studied with emphasis on the proper approach to this particular type of biblical material. (Counts as either Old or New Testament textual study.) This course is normally offered in the spring semester of even numbered years.

4513 HISTORY OF THE BIBLE

A study of the formation of the canon, inspiration, transmission, and translation of the books of the Bible. The course is designed to provide a knowledge of and appreciation for the varied history of the English Bible. Non-textual. This course is normally offered in the spring semester of even numbered years.

4533 SENIOR CAPSTONE

This course offers students an opportunity to integrate the Bible core with their primary academic discipline.

BIOLOGY (BIOL)

1013 PRINCIPLES OF BIOLOGY I

A study of the basic unit of life: a cell, including cell structure, energy transfer, metabolic processes, reproduction, and genetics. Lecture – 3 hours; Laboratory – 1 hour per week. Not applicable for credit in a science major. This course is normally offered every semester.

1031 METACOGNITIVE LEARNING STRATEGIES

Prerequisite: Math ACT subscore of 19 or lower requires completion of SDEV-0103. Concurrent enrollment: BIOL-1115. This course will provide students with strategies to be a successful learner. Topics include active reading, metacognition, motivation, and mindset. These strategies will be practiced using course material from General Biology I (BIOL-1115). This course is offered every semester.

1103 INTRODUCTION TO EXERCISE SCIENCE

An overview of the field of exercise science. Exercise physiology, testing, prescription, sports nutrition, and biometrics are all introduced in this course. A large focus of the course is the overall evidence regarding the long-term health benefits of physical activity. Finally, careers in exercise science are discussed. Same as EXCS-1013. This course is normally offered in the spring semester.

1115 GENERAL BIOLOGY I: CELLULAR AND MOLECULAR SYSTEMS

Prerequisite: MATH ACT subscore of 23 or higher no prerequisite. MATH ACT subscore of 22 or lower requires concurrent enrollment in BIOL-1031. Previous attempt of BIOL 1115 requires concurrent enrollment in or completion of BIOL-1031 no matter MATH ACT subscore. An introductory majors course designed to provide a thorough foundation in cellular and molecular biology by investigating biological, chemical, genetic, and evolutionary mechanisms. Students will learn fundamental laboratory skills and techniques to investigate topics covered during lecture. An understanding of these laboratory skills will be essential for success in future biology and chemistry courses. Lecture - 4 hours; Laboratory - 3 hours. This course is normally offered every semester.

1215 GENERAL BIOLOGY II: COMPARATIVE PHYSIOLOGY AND ECOLOGY

Prerequisite: BIOL-1115 with a "C" or better. An introductory majors course designed to provide a thorough understanding of the diversity of life on earth, including an introduction to the major life forms and comparative plant and animal physiology and systems. Students will also gain understanding in ecosystems, population, and community ecology. Students will continue learning fundamental laboratory skills needed for success in future biology and chemistry courses. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

2022 MEDICAL TERMINOLOGY

This course is an introduction to medical terminology, designed to increase familiarity with medical terms. Activities will include a review of basic anatomy and physiology, learning root words, and learning to break down and analyze unknown medical words. There are no prerequisites for this course however a working knowledge of how to use personal computers, including knowledge of word-processing and Internet searching is necessary. This course will be offered every semester.

2033 NUTRITION

A study of basic principles of human nutrition applied to health and diseases of the individual, family, and community. Course topics include biochemical aspects of nutrients, nutrient needs throughout the life cycle, and medical nutrition therapy, and its role in different medical conditions. This course is normally offered every semester.

2244 HUMAN ANATOMY

Prerequisite: BIOL-1013 with a grade of "B" or better or BIOL-1115 with a grade of "C" or better. A study of the human body at cell, tissue, and organ system levels. Course topics include cells, tissues, and anatomical structures of the major organ systems including integumentary, skeletal and muscular system, nervous system, cardiovascular system, digestive system, respiratory, urinary, and reproductive systems. Lab experience includes observation of

histological slides, use of models, and fetal pig dissection. Lecture – 3 hours Laboratory - 3 hours. This course is normally offered in the fall semester.

2314 GENETICS

Prerequisites: BIOL-1115 with a grade of "C" or better. A study of the principles of heredity and variation with emphasis on Mendelian genetics, genetic aberrations, molecular genetics, and current genetics research. Lab experiences reinforce concepts of heredity through a genome annotation research project, DNA isolation, manipulation, and analysis. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

2523 ANATOMY AND PHYSIOLOGY I

Prerequisite: BIOL-1013 with a "B" or better. This course is part one of a two-part comprehensive study of human anatomy and physiology at the cell, tissue, and organ system levels. Course topics include cells, cellular metabolism, and tissues, as well as the structure and function of the integumentary system, skeletal system, muscular system, and nervous system. The course includes an integrated lab which includes hands-on experimentation and animal dissections. This course is normally offered in the fall semester.

2623 ANATOMY AND PHYSIOLOGY II

Prerequisite: BIOL-1013 with a "B" or better. This course is part two of a two-part comprehensive study of human anatomy and physiology at the cell, tissue, and organ system levels. Course topics include blood components, as well as the structure and function of the cardiovascular system, lymphatic system, digestive system, respiratory system, urinary system, and reproductive system. The course includes an integrated lab which includes hands-on experimentation and animal dissections. This course is normally offered in the spring semester.

2624 PRINCIPLES OF MICROBIOLOGY

Prerequisites: BIOL-1013 with a grade of "B" or better and CHEM-1104. A study of the microbes, parasites, and infectious elements (e.g., viruses, prions), including the fundamentals of chemistry as applied to metabolism, cell structure, and activity of antimicrobial agents. The student will gain a thorough understanding of the practical implications of public health microbiology, including microbial control in sanitation, epidemiology, and a thorough knowledge of host defenses, including details of the immune system function, virulence, immunology, and histopathology. The course will also cover a practical application of microbiology in medical testing, vaccination, and treatment of disease. Lecture – 3 hours; Laboratory – 2 hours. This course is normally offered in the spring semester.

2913 BIOSTATISTICS

Prerequisites: MATH-1223. A 14-week, introductory course in applied statistics for the biological sciences. The course will focus on generation of hypotheses, experimental design, and analysis of experimental data. Students will determine proper sample size, categorization of experimental groups, and statistical tests to test hypotheses. Additionally, students will become proficient in the use of commonly used statistics software. This course is normally offered in the fall semester.

3023 BIOMECHANICS

Prerequisites: PHYS-1114. Attention is given to the mechanical and anatomical aspects of human movement across modalities of exercise and physical activity. The class applies kinematic and kinetic principles to the analysis of human movement. A particular focus of this class would be injury prevention through utilization of proper biomechanics. Same as EXSC-3023. This course is normally offered in the fall semester.

3115 HUMAN ANATOMY WITH CADAVER DISSECTION

Prerequisites: BIOL-2244 or BIOL-3224 with a "B" or better. Instructor permission required. A study of the gross anatomy of the body. Emphasis is given to the skeletal, muscular, nervous, cardiovascular, respiratory, digestive, renal, and reproductive systems. Lab experience includes dissection of the major regions of a human cadaver. Lecture - 3 hours; Laboratory - 6 hours. This course is normally offered in the fall semester.

3214 ENVIRONMENTAL HEALTH

Prerequisites: 3 hours of biological or chemical science. An introductory course in environmental health encompassing a comprehensive survey of major environmental issues related to personal and community health, including population dynamics, environmental toxins, and environmental degradation. Integrated lecture/ Laboratory – 4 hours. This course is normally offered in the spring semester of even numbered years.

3233 GENERAL EMBRYOLOGY

Prerequisites: BIOL-2244 or BIOL-3115 with a grade of "B" or better. A study of processes required for normal human development, including fertilization and implantation, gastrulation, neurulation, and development of the major body systems. Additionally, students will discuss the pathologies associated with failure of these normal developmental processes. Lecture - 3 hours. This course is normally offered in the spring semester of even numbered years.

3224 HUMAN PHYSIOLOGY

Prerequisites: BIOL-1215 or BIOL-2244 with a "C" or better A study of the human organism. Emphasis is given to the normal function, regulatory mechanisms, and coordination of the neuromuscular, cardiovascular, excretory, digestive, respiratory, endocrine, and reproductive systems. Lab experience includes use of the physiograph to demonstrate ECG and EMG, blood counting and identification, spirometry, and sensory mapping. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

3231 EXERCISE PHYSIOLOGY LAB

Prerequisites: BIOL-2244, BIOL-3224. Concurrent enrollment in BIOL-3233. This course provides students with the opportunity to use and experience various test and measurement equipment relevant to the exercise physiology field. Specifically, the equipment used will be to measure acute exercise responses and performance values pertaining to the following fitness components: Cardiovascular/cardiorespiratory, muscular strength, muscular endurance, flexibility, and body composition. Concurrent enrollment in BIOL-3233 is required. Same as EXSC-3231. This class is normally offered in the spring semester.

3233 EXERCISE PHYSIOLOGY

Prerequisites: BIOL-2244, BIOL-3224. An in-depth examination of human physiology, at rest and during exercise. Areas of specific focus are the cardiovascular, cardiorespiratory, and muscular systems and how each manages the physiologic stress of exercise at various intensities. Other areas of attention are exercise physiology in the context of health and disease, training adaptation, and limitations to exercise tolerance. Same as EXSC-3233. This class is normally offered in the spring semester.

3415 GENERAL MICROBIOLOGY

Prerequisites: BIOL-1115 and CHEM-1215 with a grade of "C" or better. A study of the structure and function of viruses, rickettsia, bacteria, fungi, protozoans, flatworms, and roundworms. Special emphasis is given to the isolation, culturing, staining, control, and pathogenesis of the organisms. The genetics, host parasite relations, and the immune response are also stressed. Lecture – 3 hours; Laboratory – 4 hours. This course is normally offered in the fall semester.

3431 PATHOGENIC MICROBIOLOGY LAB

Prerequisites: Concurrent enrollment: BIOL-3433. Lab studies involve culture, identification, and control of microorganisms. Also included are the basic immunological concepts and serological techniques. This course is normally offered in the spring semester of odd numbered years.

3433 PATHOGENIC MICROBIOLOGY

Prerequisites: BIOL-3415 with a grade of "C" or better. A study of pathogenic microorganisms and the diseases they produce in humans. Emphasis is on the physiology, pathogenesis, and epidemiology of specific microorganisms, including host responses. This course is normally offered in the spring semester of odd numbered years.

4014 BIOCHEMISTRY I WITH LAB

Prerequisites: BIOL-1115 and CHEM-1215 with a grade of "C" and concurrent enrollment in CHEM-3115 OR completion of CHEM-3115 with a grade of "C" or better. A detailed study of the structure and function of the major classes of biomolecules including proteins, lipids, carbohydrates, and nucleic acids. The course also includes in-depth discussions of enzyme mechanisms and catalysis, receptor/ligand interaction, cellular signaling pathways, molecular motors, and membrane structure and function. The lab provides basic biochemical techniques, including protein expression and purification, electrophoresis, and enzymology. Lecture – 3 hours; Laboratory – 3 hours. Same as CHEM-4014 This course is normally offered in the fall semester.

4123 BIOCHEMISTRY II

Prerequisites: CHEM-3115 with a "C" or better and BIOL-4014 or CHEM-4014. A detailed overview of intermediary metabolism, including discussion of glycolysis, Krebs cycle, oxidative phosphorylation, amino acid synthesis and catabolism, the urea cycle, and nucleotide biosynthesis. Lecture – 3 hours. Same as CHEM-4123. This course is normally offered in the spring semester.

4201 IMMUNOLOGY LAB

Corequisite: BIOL-4213. An introduction to experimental design and basic techniques commonly used in immunology research laboratories. Cellular immunology techniques include preparation of cell suspensions, detection of activated T cells, production of monoclonal antibodies, and the following assays: enzyme-linked immunosorbent assay (ELISA), SDS-PAGE, Western blot, and flow cytometry. This course is not suitable for students who object to the use of animals in teaching and/or research. Laboratory - 3 hours. This course is normally offered in the spring semester.

4213 IMMUNOLOGY

Prerequisites: BIOL-1115 with a grade of "C" or better. A study of advanced principles of immunology. The nature of the immune response mechanisms, immunogenetics, diseases of the immune system, and applications of immunology in medicine and research is emphasized. Lecture – 3 hours. This course is normally offered in the spring semester.

4223 MOLECULAR BIOLOGY

Prerequisite: BIOL-2314 and CHEM-3115 with a grade of "C" or better. An advanced study of molecular biology and genetics with emphasis on the structure, function, and mechanisms of the molecules involved in replication, recombination, transcription, RNA processing, translation, and gene expression. Lecture – 3 hours. This course is normally offered in the fall semester of odd numbered years.

4301 MOLECULAR BIOLOGY LAB

Prerequisite: BIOL-2314 and BIOL-4014 with a grade of "C" or better. The student will use standard lab techniques to conduct a semester research project that attempts to answer a pertinent question in the area of molecular genetics or cell biology. Laboratory -3 hours. This course is normally offered in the spring semester of even numbered years.

4313 HUMAN TOXICOLOGY

Prerequisite: CHEM-3115 with a grade of "C" or better. A basic knowledge of human anatomy and physiology is recommended. Human Toxicology examines the adverse effects of chemical

substances on the human body. It covers the principles of toxicology that include the dose-response relationship; toxic agent classification; exposure and dose; molecular mechanisms of toxicity; the dispositions of toxicants - absorption, distribution, metabolism, and excretion of toxicants; the sites of action of chemicals in the body; and the responses of specific organ systems. The following chemical groups commonly found in the environment will be discussed - organic solvents, metals, pesticides, gasses, radioactive materials, complex chemical mixtures, and particulate matter that includes nano-particles, silica, asbestos, coal, and synthetic mineral fibers. Same as CHEM-4313. Lecture - 3 hours. This course is normally offered in the spring semester of odd numbered years.

4411 INTRODUCTION TO RESEARCH

Prerequisites: 8 hours biological science with at least 2 labs. Instructor permission required. A hands-on experience in research at OC or affiliated laboratory. The research experience involves designing and performing experiments, reading research papers, and participating in appropriate seminars. Selection for undergraduate research is competitive and dependent on the number of student applicants and participating faculty and laboratories. It is the student's responsibility to seek out a research opportunity with a faculty member or affiliated laboratory. Lab – 2 to 3 hours per week. This course is normally offered as needed.

4412 UNDERGRADUATE RESEARCH

Prerequisites: 8 hours biological science with at least 2 labs. Instructor permission required. A hands-on experience in research at OC or affiliated laboratory. The research experience involves designing and performing experiments, reading research papers, and participating in appropriate seminars. Selection for undergraduate research is competitive and dependent on the number of student applicants and participating faculty and laboratories. It is the student's responsibility to seek out a research opportunity with a faculty member or affiliated laboratory. Lab – 4 to 6 hours per week. This course is normally offered as needed.

4414 UNDERGRADUATE RESEARCH

Prerequisites: 8 hours biological science with at least 2 labs. Instructor permission required. A hands-on experience in research at OC or affiliated laboratory. The research experience involves designing and performing experiments, reading research papers, and participating in appropriate seminars. Selection for undergraduate research is competitive and dependent on the number of student applicants and participating faculty and laboratories. It is the student's responsibility to seek out a research opportunity with a faculty member or affiliated laboratory. Lab – 8 hours per week. This course is normally offered as needed.

4814 FIELD MEDICINE PRACTICUM

Prerequisite: Satisfactory standing in pre-medical studies and selection by the science faculty in cooperation with the International Studies Committee. Junior standing required. Practical experience in assisting a physician at a medical mission's clinic as part of the student's enrollment in an international studies program. This course is offered as needed.

BUSINESS ADMINISTRATION (BUSA)

1011 FOUNDATIONS FOR GROWTH AND SUCCESS

This course is the first of a three-part series of courses designed to help students succeed in the classroom and in their lives and careers. This course covers topics related to academic planning and success, career and professional development, spiritual health and growth, and personal health and wellness. The focus on experiential learning will include guest speakers from the business community and beyond. This course is normally offered each semester.

1013 INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP (TEL ONLY)

This course provides an introductory survey to entrepreneurship and business fundamentals through the framework of managing a successful small business enterprise.

1103 BUSINESS PRINCIPLES AND APPLICATIONS

This is an introductory business course designed to acquaint the student in a general way with business terminology, concepts, and functions. It includes a broad treatment of business objectives and strategies. Students are introduced to the professional use of computer applications, such as spreadsheets and presentation platforms and to the skills required to succeed in the field of business.

1111 BUSINESS ORIENTATION BOOTCAMP

An orientation to the theory and practice of business. Students will also engage in a real-world team project where they work with student and faculty consultants to develop a new business concept and present the concept to a panel of potential investors. This class is normally offered in the fall semester for incoming freshman and transfer business majors. This course is normally offered in the week before the fall semester for new incoming business majors.

1211 INTRODUCTION TO BUSINESS

An introductory business course designed to acquaint the student in a general way with business terminology, concepts, and functions. The course will include broad treatment of business objectives and strategies. Students are introduced to the School of Business Administration and to the skills required to succeed in the field of business. This course is offered in the fall and spring semester.

2011 SKILLS FOR CAREER AND CALLING

This course is the second of a three-part series of courses designed to help students succeed in the classroom and in their lives and careers. This course covers topics related to academic planning and success, career and professional development, spiritual health and growth, and personal health and wellness. The focus on experiential learning will include guest speakers from the business community and beyond. This course is normally offered each semester.

3011 STRATEGIES FOR PURPOSE-DRIVEN SUCCESS

This course is the third of a three-part series of courses designed to help students succeed in the classroom and in their lives and careers. This course covers topics related to academic planning and success, career and professional development, spiritual health and growth, and personal health and wellness. The focus on experiential learning will include guest speakers from the business community and beyond. This course is normally offered each semester.

3213 BUSINESS LAW

A survey of the Anglo-American system of jurisprudence as the legal background for the operation of the free enterprise system in our society. The course considers the historical, ethical, social, and practical perspectives. It also examines the basic rules of law pertaining to contracts, property, sales, negotiable instruments, secured transactions, agency, employment, partnerships, corporations, insurance, bankruptcy, and wills. This course is offered in the fall and spring semester.

3323 EUROPEAN BUSINESS AND CULTURE

This class explores international business concepts specifically in the European context. Students gain an understanding by experiencing European business through first-hand experiences such as company tours, meetings with business, government, and organizational representatives. Students will also learn about European culture through an immersive study abroad experience.

3713 BUSINESS ETHICS

This course examines basic ethical issues involved in the conduct of business from a Biblical perspective. Critical thinking regarding organizations as spiritual, social, moral, and ethical entities is explored. Topics include personal responsibility, corporate social responsibility, and the effects of diversity and culture on ethical considerations. This course is offered in the fall, spring, and summer semesters.

CHEMISTRY (CHEM)

1104 INTRODUCTION TO CHEMISTRY

Prerequisite or Concurrent: SDEV-0103. A survey course covering atomic structure, bonding, application of mathematics to chemical equations, solutions, acid-base chemistry, equilibrium, and introductory organic and biological chemistry. The lab includes experiments in these lecture topics emphasizing measurement concepts and calculations. In addition to pre-nursing and pre-science, this course can be taken for science core credit. Lecture - 3 hours; Laboratory - 3 hours. This course is normally offered every semester.

1115 GENERAL CHEMISTRY I

Prerequisites: Concurrent enrollment in MATH-1223 OR MATH-1223 with a grade of "C" or better (or equivalent or higher-level math). Math ACT subscore of 19 or lower and CHEM-1104 with a "C" or better. First semester of a two-semester sequence for science majors. A study of atomic theory, bonding, periodicity, thermochemistry, gas laws, and, in general, quantitative relationships in chemical and physical processes. Lecture - 4 hours; Laboratory - 3 hours. This course is normally offered in the fall and spring semesters.

1215 GENERAL CHEMISTRY II

Prerequisite: CHEM-1115 with a grade of "C" or better and MATH-1223 with a grade of "C" or better (or equivalent or higher-level math). Second semester of a two-semester sequence for science majors. A study of the liquid and solid states, solubility and acid-base equilibria, thermodynamics, kinetics, oxidation reduction, electrochemical cells, and complex ions. Also includes an introductory unit on organic chemistry. Lecture - 4 hours; Laboratory - 3 hours. This course is normally offered in the spring semester.

1313 CHEMISTRY FOR ENGINEERS

Prerequisite: concurrent enrollment in MATH-1213 OR MATH-1223 with a grade of "C" or better (or equivalent or higher-level math). Math ACT subscore of 22 or lower - CHEM-1104 with a "C" or better. A study of stoichiometry, periodicity, electronic structure of the atom, bonding theories, the states of matter, thermochemistry, and chemical thermodynamics and selected applications for engineering. Lecture - 3 hours. This course is normally offered in the spring semester.

3114 ANALYTICAL CHEMISTRY I

Prerequisite: CHEM-3124 with minimum grade of "C" or better. A course for increasing the understanding of the chemical composition of matter, and the tools and techniques used to make qualitative and quantitative analyses. The student will learn to apply scientific measurement principles in order to understand chemical systems and collect useful information. The student will experience analysis with several techniques and instruments found in the analytical laboratory. Lecture—3 hours; Laboratory—3 hours. This course is normally offered in the fall semester of even numbered years.

3115 ORGANIC CHEMISTRY I

Prerequisite: CHEM-1215 with a grade of "C" or better. An integrated study of atomic and molecular orbital theory with the naming of organic compounds, including an introduction to stereochemistry. A study of structure and reactivity of various types of organic compounds, including alkenes, alkynes, dienes, alkanes, alkyl halides, alcohols, amines, ethers, radicals, and epoxides. Principles of mass spectroscopy, infrared spectroscopy, and ultraviolet/visible spectroscopy. Lab exercises include Introduction to lab techniques used in organic analysis, identification, and synthesis, including Fourier transform infrared spectroscopy. Techniques for determining physical properties, such as melting point, boiling point, and refractive index, as well as performing extraction, recrystallization, sublimation, and distillation. Use of the lab notebook and preparation of a detailed lab report. Lecture - 4 hours; Laboratory - 3 hours. This course is normally offered in the fall semester.

3124 ORGANIC CHEMISTRY II

Prerequisite: CHEM-3115 with a grade of "C" or better. Continuation of the first semester course with emphasis on the study of organic chemical reactions, including the reactions of benzene, the reactions of substituted benzenes, and the structure and reactions of carbonyl compounds that include aldehydes, ketones, and carboxylic acid derivatives. Coverage of oxidation-reduction reactions, heterocyclic compounds, and multi-step synthesis processes. Principles of NMR spectroscopy. Lab exercises include using techniques from first semester lab course plus gas chromatography and NMR to perform and evaluate the following chemical reactions: catalytic hydrogenation of alkenes, hydration of alkenes, synthesis of alcohols, use of nucleophilic substitution to synthesize 1-bromobutane, Grignard synthesis, aromatic substitutions, the Friedel-Crafts acylation reaction, and pinacol rearrangements. Lecture - 3 hours; Laboratory - 3 hours. This course is normally offered in the spring semester.

4014 BIOCHEMISTRY I AND LAB

Prerequisite: BIOL-1115 and CHEM-1215 with a grade of "C" and concurrent enrollment in CHEM-3115 or completion of CHEM-3115 with a grade of "C" or better. A detailed study of the structure and function of the major classes of biomolecules including proteins, lipids, carbohydrates, and nucleic acids. The course also includes in-depth discussions of enzyme mechanisms and catalysis, receptor/ligand interaction, cellular signaling pathways, molecular motors, and membrane structure and function. The lab provides basic biochemical techniques, including protein expression and purification, electrophoresis, and enzymology. Lecture - 3 hours; Laboratory - 3 hours. Same as BIOL-4014. This course is normally offered in the fall semester.

4113 INTRODUCTION TO PHYSICAL CHEMISTRY I

Prerequisites: CHEM-3124 and MATH-2114. A life-sciences emphasis study of the following topics in physical chemistry: gas laws, thermodynamics, equilibrium, electrochemistry, quantum chemistry, and kinetics. Lecture - 3 hours. This course is designed for biochemistry majors in fulfillment of their degrees.

4123 BIOCHEMISTRY II

Prerequisite: CHEM-3115 with a "C" or better and BIOL-4014 or CHEM-4014. A detailed overview of intermediary metabolism including discussion of glycolysis, Krebs cycle, oxidative phosphorylation, amino acid synthesis and catabolism, the urea cycle and nucleotide biosynthesis. Lecture - 3 hours. Same as BIOL-4123. This course is normally offered in the spring semester.

4313 HUMAN TOXICOLOGY

Prerequisite: CHEM-3115 with a grade of "C" or better. A basic knowledge of human anatomy and physiology is recommended. Human Toxicology examines the adverse effects of chemical substances on the human body. It covers the principles of toxicology that include the dose-response relationship; toxic agent classification; exposure and dose; molecular mechanisms of toxicity; the dispositions of toxicants - absorption, distribution, metabolism, and excretion of toxicants; the sites of action of chemicals in the body; and the responses of specific organ systems. The following chemical groups commonly found in the environment will be discussed - organic solvents, metals, pesticides, gasses, radioactive materials, complex chemical mixtures, and particulate matter that includes nano-particles, silica, asbestos, coal, and synthetic mineral fibers. Same as BIOL-4313. Lecture - 3 hours. This course is normally offered in the spring semester of odd numbered years.

4611, 4612, 4613 RESEARCH METHODS

Prerequisite: permission of instructor. A lab-literature approach to advanced topics and methods in chemistry. Work will involve lab experiences beyond those available in other courses, with methods development for undergraduate research projects. (1-3 hours) This course is offered as needed.

CHILD/HUMAN DEVELOPMENT (CHDV)

3013 NATURE AND CHARACTERISTICS OF EARLY CHILDHOOD

Prerequisite: FMST-1113. Corequisite or prerequisite: PSYC-2523. After studying the broad field of Early Childhood in relation to its multiple historical, philosophical and social foundations, the candidate will examine how these foundations influence current thought and practice. After exploring the characteristics of the young child from birth to age eight, the candidate will demonstrate observation techniques and planning skills related to developmentally appropriate practice. The candidate will also reflect on the role of the teacher and ethical considerations of the Early Childhood field. (Cross listed with ECED-3013 but will not apply to teacher licensure requirements.) This course is normally offered in the fall semester.

3023 EMERGENT LITERACY

Prerequisites: FMST-1113, CHDV-3013 and PSYC-2523. This course is a study of the emerging process of language development from infancy through the primary years. The candidate will observe and document a child's development through all four age categories, infant, toddler, preschooler, and primary-aged (eight practicum hours). The candidate will demonstrate understanding of and respect for the socio-cultural diversity of literacy development as well as the interrelationships of culture, language, thought, and the function of the home language. Additionally, the candidate will study children's literature to develop an understanding that literature forms a central focus for language and literacy development. The candidate will apply various methods of using literature with children in the home and classroom settings including reading aloud to a child once per week for 14 weeks (eight practicum hours). (Students whose programs do not require admission to teacher education but require this course will receive credit for CHDV-3023 which cannot be applied to licensure requirements.) Same as ECED-3023 and ELEM-3023. This course is normally offered in the fall semester.

4023 TOPICS IN EARLY CHILDHOOD

Prerequisite: FMST-1113, CHDV-3013 and PSYC-2523. This is a study of family, family within the community, child behavior, and classroom guidance theories for the preschool and primary age child. The course also includes aspects of health, safety, and nutrition within the contexts of home, child care, and school. Cross listed with ECED-4023 but will not apply to teacher licensure requirements. This course is normally offered in the spring semester.

CHINESE (CHNS)

1113 BASIC CHINESE I (TEL ONLY)

Chinese I course provides basic communication skills in Modern Standard Chinese. This course is designed for students with little or no prior experience in the Chinese language but who are interested in learning the basics of Chinese language and culture.

COMMUNICATION (COMM)

1213 ORAL COMMUNICATION

Study and practice of communication behavior in a variety of situations, focusing on interpersonal and public communication. Media literacy for presentations will also be included. This course is normally offered every semester.

1311 COMMUNICATION PRACTICUM

For students completing 60 hours of formally structured on-campus experience in an area of Communication such as debate, drama, interpersonal or team experiences. Must be faculty directed and evaluated. This course is normally offered every semester.

1351 MEDIA PRACTICUM: JOURNALISM

For those instructed on campus journalism experiences whether broadcast, print, or web. The course includes implementation and development of broadcasting skills and techniques. To receive credit, a student must work at least 60 hours. This course is normally offered every semester.

1361 MEDIA PRACTICUM: PUBLIC RELATIONS

For those successfully completing at least 60 hours of on-campus experiences in Eagle PR, the student-operated public relations firm. This course is normally offered every semester.

2003 EFFECTIVE LEADERSHIP

This course examines the fundamental principles of leadership from a communication perspective, discussing how those principles are evident in politics, business, religious groups, and organizations. Emphasis is placed on differentiating effective from ineffective leadership. Same as LDSH-2003. This course is offered annually each spring semester.

2043 MANAGING SOCIAL MEDIA

Prerequisite: ENGL-1213. In this course, we will explore communication practices, including emerging social media technologies, and study their ethical application in the contemporary practice of public image and reputation management. We will examine these technologies from a theoretical perspective by reading research and writings from professionals and scholars. This course is normally offered every spring semester.

2513 COMMUNICATION THEORY

Special attention to various types of communication theory and research, including interpersonal, public, and mass communication. This course is normally offered in the spring semester of even numbered years.

2613 COMMUNICATION FAITH AND CULTURE

An introduction to the relationship between the mass media and the culture in which it operates. Major theories of how the media work are introduced. This intermediate course helps prepare students for subsequent courses in news reporting, video and audio production, advertising, and public relations. This course is normally offered in the fall semester.

2643 MEDIA CONTENT CREATION

Hands-on immersion in visual storytelling using single camera film-style shooting techniques. Course includes digital cinematography, nonlinear editing, lighting, and audio. An orientation to the equipment and technical skills involved in acquiring audio and video from a range of sources including drones, editing it in a digital, non-linear environment, and distributing it via broadcast, web and presentation. This is a three-credit course normally offered in the fall semester of even numbered years.

2813 SOCIAL MEDIA AND ADVERTISING PRINCIPLES

Designed to introduce the student to the history of advertising and its role and function today. The course focuses on current case studies about advertising today and analyzes ad campaigns. This course is normally offered in the spring semester of odd numbered years.

2823 PUBLIC RELATIONS AND SOCIAL MEDIA INFLUENCER PRINCIPLES

Study of the function and procedures of public relations with attention to methods of gaining public support for an activity, cause, or movement. The course includes fundamentals of public relations copy for varied media and channels. This course is normally offered in the spring semester of even numbered years.

2833 NEWS WRITING

Prerequisites: COMM-2643, and ENGL-1213. A project-based course designed to teach the basic skills of information gathering and processing for various means of distribution including print, broadcast, and web. Students will begin maintaining their own portfolio of work. This course is normally offered as needed.

3003 FAMILY COMMUNICATION AND LEADERSHIP

This course examines theories and research pertaining to communication in the family context. Special emphasis is placed on communication and the development of leadership within the family. Same as FMST-3003. This course is normally offered in the spring semester of odd numbered years.

3013 CULTURE AND LEADERSHIP

The purpose of Culture and Leadership is to provide students with a comprehensive understanding of the impact of culture on organizational systems so that they can be a more informed observer and effective participant within them. The course examines important theories of culture, leadership, and change; peacemaking (so that one might build peaceful communities) and faith (so that one might use their understanding of culture and leadership to improve an organization's health and well-being). This course is normally offered in the fall semester of odd numbered years.

3113 BUSINESS AND PROFESSIONAL COMMUNICATION

Prerequisites: COMM-1213 and ENGL-1213. Special attention is given to communication theories as they apply to a variety of business and professional settings, including conflict management, leadership, team management, and professional speaking situations. This course is normally offered every semester.

3243 EVENT PLANNING

Prerequisite: ENGL-1213. Planning, Organizing, and Leading Events introduces you to the many facets of managing an event - from communication and ticketing, to operations and evaluation. You'll learn the importance of planning, budgeting, and customer service. This course is normally offered in the fall semester in odd numbered years.

3323 ORGANIZATIONAL COMMUNICATION

An examination of the functions of communication in the organizational setting, with emphasis on the application of recent research and theories to the analysis of communication in organizations. This course is normally offered in the spring semester of odd numbered years.

3333 TEAM COMMUNICATION AND LEADERSHIP

A study of the communication patterns and dynamics of small groups. Special attention is given to organizing, participating in, and evaluating group discussions. This course is normally offered in the spring semester of odd numbered years.

3353 INTERPERSONAL COMMUNICATION

An application of interpersonal communication theory and research to the study of developing relationships and family communication. Course topics include listening, nonverbal communication, conflict management, and gender differences in communication. This course is normally offered in the spring semester of even numbered years.

3413 ARGUMENTATION AND CRITICAL THINKING

A study of the forms of logical thought with practical identification of these forms and areas such as politics, law, human relations, advertising, evidence, reasoning, and reputation will be covered. This course is normally offered in the Fall semester of even numbered years.

3543 PUBLIC RELATIONS AND SOCIAL MEDIA CASE STUDIES

Prerequisite: COMM-2823 and ENGL-1213. A study of public relations as currently practiced by corporations, institutions, and government. The course includes practical experience in the procedures of media relations and training. This course is normally offered in the fall semester of even numbered years.

3763 COMMUNICATION RESEARCH AND ANALYTICS

This course offers Communications students the opportunity to understand and conduct primary social science research in the communication field. Students will learn how to evaluate high quality research and how to conduct primary research that test hypotheses or explores research questions. The class will engage in group and individual research projects that will use quantitative and qualitative methods and analysis. Students are expected to submit findings from the research projects in this class to academic conferences. This course is normally offered in the fall semester of even numbered years.

3823 FEATURE WRITING

Lectures and labs in interviewing, feature writing, opinion writing, investigative journalism, sports and other specialized areas of journalism. This course is normally offered as needed.

3913 HOMILETICS I

Prerequisite: COMM-1213. A study of the theory, practice and evaluation of the preparation and delivery of sermons and religious speeches. Same as GMIN-3913. This spring semester.

4013 GLOBAL LEADERSHIP

This course focuses on understanding leadership in a global context, providing both theoretical framework and practical advice for leading across cultural boundaries and addressing international challenges. The study and analysis of cultural impacts on successful leadership and various geographical areas. This class focuses on cultural theories and models that influence leadership across contexts.

4023 WOMEN AND LEADERSHIP

This course reviews historical and contemporary challenges and opportunities related to women's leadership development. It examines the personal, social, and structural dynamics that differently affect women and men as leaders, particularly in terms of how they are viewed, how their contributions are evaluated, and what kinds of opportunities are available to them. Topics addressed include how gender and leadership are constructed, the leadership styles of men and women, gender and leadership in the workplace, and how women succeed as

leaders. A major focus of this course will include strategies for change and what has and can be done to improve the path of leadership for women. Students will also explore their own leadership attributes and develop an understanding of who they are as leaders.

4113 PERSUASION AND ADVOCACY

An examination of classical and contemporary theories of social influence with an emphasis on the practical applications of these theories in politics, advertising, religion, and interpersonal communication. This course is normally offered in the fall semester of odd numbered years.

4523 CONFLICT RESOLUTION AND PEACEMAKING

In this course, learners discover the theory, research, practice, and Biblical principles of communication as it relates to understanding and negotiating interpersonal conflict. This course is normally offered in the spring semester of odd numbered years.

4631 SENIOR SEMINAR IN COMMUNICATION

Prerequisites: Communication or Mass Communication major; Senior standing. This capstone course is designed to preparing graduating students for entrance into the workforce. In addition to assembling and presenting a portfolio of their accumulated work, students will craft a resume, participate in mock employment interviews, write a career letter, learn about career networking and target job opportunities. This course is normally offered every semester.

4633 INTERCULTURAL COMMUNICATION I

A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. COMM-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. Same as ENGL-4633, MISS-4633, and SOCI-4633. This course is normally offered every semester (including summers in Vienna).

4713 COMMUNICATION LAW

Prerequisites: Junior standing. This class looks at past and current legal decisions that shape the role of the media in society today. The course also examines the legal aspects of both the print and electronic media and also the role of the regulatory agency on the electronic media. This course is normally offered in the fall semester.

4733 COMMUNICATION ETHICS

Prerequisite: Senior standing or instructor's consent. Examines a variety of ethical approaches to communicating. Students will investigate motives for choice making among what may appear to be equally compelling or attractive choices. The assumption of responsibility for communication choices by communicators will highlight class assignments. This course is normally offered every spring semester.

4810 SPECIAL STUDIES

An advanced, in-depth study of a particular problem area of communication. Content varies, and the course may be repeated. (1-3 hours). This course is normally offered as needed.

4831 COMMUNICATION INTERNSHIP

Prerequisite: Instructor consent. Practical experience designed to acquaint the student with a specific area of the communication field in order to assist the student in achieving career objectives. One to two hours credit, depending on the number of hours worked each week. This course is normally offered as needed.

COMPUTER ENGINEERING (CENG)

3203 INTRODUCTION TO MICROPROCESSORS

Prerequisite: Admitted to ECE. Introduction to the architecture and programming of microprocessors and microcontrollers. Computer organization, addressing modes, assembly language programming techniques and interfacing. Lecture – 3 hours. This class is normally offered in the fall semester.

4113 SOFTWARE AND NETWORK ENGINEERING

Prerequisite: Admitted to ECE and ELEC-4523. A study of software engineering principles including software development processes, Agile software development, software design patterns, requirements engineering, architectural design, and software testing. Lecture - 3 hours. This course is normally offered in the fall semester.

4213 NETWORK ENGINEERING

Prerequisites: Admitted into ECE or CMSC-3443. An introductory look at computer network design and engineering topics with a focus on layer 2-4 and 7 Internet protocols, including Ethernet, IP, TCP, and UDP, FTP, and HTTP. The course includes the use of network protocol analyzers to enable hands-on network protocol experience. Strong emphasis in wired and wireless network design with mathematical modeling, simulation, and trade-offs in protocols and hardware. Examination of commonly used protocols and standards.

4223 EMBEDDED SYSTEMS DESIGN

Prerequisite: Admitted to ECE and CENG-3203. Embedded microcontroller system design using an integrated development environment (IDE). Starting with a set of specifications, a self-contained finished microprocessor-based product will be designed and built. Topics will include controller selection, software development, layout of printed-circuit boards, and test/validation strategies. Lecture - 2 hours; Laboratory - 3 hours. This course is normally offered in the spring semester.

4233 ADVANCED COMPUTER ARCHITECTURE

Prerequisite: Admitted to ECE and CENG-3203. Computer organization and design. Fundamentals of computer design, instruction set architectures, instruction-level parallelism, pipelining principles, speculation, thread-level parallelism, memory hierarchies, cache principles, virtual memory, multiprocessors, storage systems, clusters, historical perspectives. Lecture – 3 hours. This course is normally offered in the spring semester.

4243 ADVANCED NETWORK ENGINEERING

Prerequisite: CENG-4123: Network Engineering. An application of the concepts learned in a first network engineering course with a focus on operational network concepts and protocols such as first hop redundancy protocols, dynamic routing protocols, network security, network enable hands-on network configuration and troubleshooting experience. Configuration of commonly used protocols and standards on simulated industry equipment. Hardening of network protocols and infrastructure layer 2 and layer 3 devices.

4303 HDL DESIGN OF MICROPROCESSORS

Prerequisites: Admitted to ECE and CENG-3203. Design of modern integrated circuits with emphasis on design and development of custom digital circuits using Hardware Description Languages (HDL) (e.g. HDL/Verilog). Projects requiring both hardware and software architecture elements will be developed. A complete microprocessor will be designed, implemented, and tested in the lab. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

4732 SYSTEMS DESIGN I

Prerequisites: Admitted to ECE, CENG-3203, ELEC-3313 and ELEC-3403. A recap and extension of problem-solving skills introduced in earlier courses using a system design approach; to prepare the student for the capstone design project work of CENG-4742 and CENG-4752; topics to include engineering design terminology, methodology and procedures; technical memos and reports; safety, ethics, information gathering and team dynamics. Significant emphasis on oral presentations is included. Laboratory – 3 hours. Same as ELEC-4732 and MECH-4732. This course is normally offered in the spring semester.

4743 SYSTEMS DESIGN II

Prerequisites: CENG-4732. An implementation of the design methodology covered in Systems Design I. Applications of research and design relating to real world or industry problems; interaction with other fields of engineering and science.

4753 SYSTEMS DESIGN III

Prerequisites: CENG-4743. A continuation and completion of the capstone design project begun in CENG-4743. Students not successfully completing the entire project must normally retake CENG4743/4753 with a new project assignment. Laboratory – 6 hours. (Same as MECH-4753 and ELEC-4753.) This course is normally offered in the spring semester.

COMPUTER SCIENCE (CMSC)

1003 INTRODUCTION TO INFORMATION TECHNOLOGY (TEL ONLY)

This course provides an introduction to information technology and computing systems. It covers both the history and theory of information systems as well as the practical application of technologies.

1113 PROGRAMMING I

Corequisite: CMSC-1113L. An introduction to the discipline of computing. The course has three major objectives: to present computing as a discipline, to develop skills in problem solving using a computer and to teach the software development process. This course includes laboratory experiences in computer science. Lecture – 3 hours; Laboratory – 2 hours. This course is normally offered every semester.

1123 PROGRAMMING II

Prerequisite: CMSC-1113 or permission of instructor. Corequisite: CMSC-1123L. Continues the development of basic topics in computing, including algorithm design and implementation, and basic data structures such as linked lists and recursion. The course focuses on the software development process, including application design, testing and documentation. This course includes laboratory experiences in computer science. Lecture – 3 hours; Laboratory – 2 hours. This course is normally offered every semester.

1313 SOFTWARE ENGINEERING I-INTRODUCTION

A basic introduction to Software Engineering. Topics include software development lifecycle, computer systems, software systems and Internet architectures, and basic tools (MS Word, MS Excel, MS Access, wiki, CMS). This course is normally offered in the fall semester.

2011 TEAM EXPERIENCE I

Prerequisite: CMSC-1113. This course provides an experiential approach to learning Computer Science in a specialized area, with an emphasis on teamwork. The course may include practice using current CS industry tools and technologies, development of technology demonstrations, academic competitions, or undergraduate research depending on the specific area. 2-hour lab. This course is normally offered in the spring semester.

2133 OBJECT ORIENTED PROGRAMMING

Prerequisite: CMSC-1123. Covers object-oriented design and implementation issues Topics include an introduction to modeling tools (e.g., UML), abstraction, inheritance, polymorphism, memory management, and common design patterns. The course also introduces event handling and GUI development using relevant class libraries. Lecture – 3 hours; Laboratory – 2 hours. This course is normally offered in the fall semester.

2213 INTERNET APPLICATION DEVELOPMENT

Prerequisite: CMSC-2133. An introduction to how the Internet works, the software tools used to develop applications for the Internet and the development of skills using those tools. The tools will include HTML, CSS, JavaScript, web servers, and application servers. This course is normally offered in the spring.

2233 DATA STRUCTURES AND ALGORITHM ANALYSIS

Prerequisites: MATH-1623 and CMSC-2133. Covers the characteristics of data structures and their implementation. Topics include advanced lists, trees, hashing schemes, and introductory algorithm analysis. This course is normally offered in the spring semester.

2313 SOFTWARE ENGINEERING II-PRACTICES

Prerequisite: CMSC-1123. An introduction to Software Engineering practices. Topics include software engineering processes and tools for the major software development activities, including requirements, design, develop, tests, deploy, and maintain. It also includes the discussion of software development methods, including Waterfall and Agile. This course is normally offered in the fall semester.

2413 ASSEMBLY LANGUAGE

Prerequisites: CMSC-1123 and MATH-1623 or departmental permission. An introduction to assembly language concepts and programming. The topics include binary and hexadecimal number systems, data representation methods, addressing techniques and subroutines. This course is normally offered in the fall semester.

3033 MATH FOR ARTIFICIAL INTELLIGENCE

Prerequisite: MATH-1614 or the equivalent. An introduction to the mathematics required to understand and implement AI algorithms. This includes the study of selected topics in calculus, linear algebra, derivatives and partial derivatives, probability and common machine learning functions. This course is normally offered every spring semester.

3123 AI TECHNOLOGIES

An introduction to AI and its applications in business and society. This course has three major objectives: to explore key AI, ML, and generative AI concepts, to apply AI tools for real-world problem-solving, and to evaluate the ethical and societal impacts of AI technologies. Topics include retrieval-augmented generation, generative models, and multimodal AI, with a focus on business value and industry use cases. This course is normally offered every fall semester.

3203 GAME PROGRAMMING - UNITY

Prerequisites: CMSC-2233. This course provides an introduction to game programming within a contemporary game engine environment (e.g., Unity3D). Topics include tool usage, basic asset creation, the game engine API, and data structures and logic for two and three-dimensional games. This course assumes familiarity with at least one object-oriented programming language. This course is offered every fall semester.

3253 GAME PROGRAMMING - UNREAL

Prerequisites: CMSC-2233 This course provides an introduction to game programming within the Unreal game engine environment. Topics include tool usage, basic asset manipulation, the game engine API, Blueprints, and data structures and logic for two and three-dimensional games. This course assumes familiarity with at least one object-oriented programming language. This course is typically offered every spring semester.

3313 SOFTWARE ENGINEERING III-ETHICS

Prerequisite: CMSC-2313. Provides insight into the ethics required in computer science and software engineering practice. It will also include the role of the computer in modern society and its impact upon the individual. Topics include ethical decision-making, legal issues, dangers posed by computers, public perception of computers, and computer scientists' and futurists' views of computing. This course is offered in the fall semester of odd numbered years.

3443 COMPUTER ORGANIZATION AND ARCHITECTURE

Prerequisite: CMSC-2413. An introduction to the organization and structuring of the major hardware components of computers. Emphasis is placed upon the mechanics of information transfer and control within a digital system and the fundamentals of logic design. Topics include the control unit, memory, ALU, I/O and interfacing. Some lab experience is included. This course is normally offered in the spring semester.

3633 INTRODUCTION TO CYBERSECURITY

This course provides a comprehensive, up-to-date global body of knowledge that ensures students have the right information security knowledge and skills to be successful in IT operational roles to mitigate security concerns and guard against the impact of malicious activity. This course prepares students for the Systems Security Certified Practitioner (ISCI SSCP) certification exam. This course is normally offered in the spring semester.

4011 TEAM EXPERIENCE II

This course provides an experiential approach to learning Computer Science in a specialized area, with an emphasis on teamwork. The course may include practice using current CS industry tools and technologies, development of technology demonstrations, academic competitions, or undergraduate research depending on the specific area. This course will typically require a poster presentation or other demonstration of deliverables. 2-hour lab. This course is normally offered in the spring semester.

4113 HUMAN COMPUTER INTERACTION

Prerequisite: CMSC-2233. An introduction to user interface design and user experience. Topics include HCI concepts and principles, usability, HCI evaluation, HCI design, interaction styles and interaction devices. This course is normally offered in the fall semester.

4123 SOFTWARE ENGINEERING IV-TOOLS

Prerequisite: CMSC-2233 and CMSC-2313. Prerequisite or Corequisite: CMSC-4323. This course will provide the student with practical experience in the use of software tools in a team environment. This course is the first in a two-course sequence (see also CMSC-4243) in which students are organized into teams to develop a software product, typically for an external customer. Tools covered include configuration management tools, project management software, software design/implementation tools, and programming languages, frameworks, and libraries required to create the product. Lecture - 3 hours. Laboratory - 2 hours. This course is normally offered in the fall semester.

4133 INTRODUCTION TO PARALLEL PROGRAMMING

Prerequisite: CMSC-2133. This course is an introductory course in parallel programming for upper-division undergraduate and graduate students who have already learned to program in C, C++, Java, or C#. The goal of the course will be to equip computer science students to be able to program multi core computers and parallel processors generally for specific, engineering, and business applications. This course is normally offered as needed.

4233 MOBILE APPLICATION

Prerequisite: CMSC-2233 An introduction to mobile application software development. In this course the student will learn to develop mobile apps. Topics will include mobile platforms and mobile application development tools. This course is normally offered every semester.

4243 SOFTWARE ENGINEERING V-PROJECTS

Prerequisites: CMSC-4123. This is a project-based course in which students work on teams to complete the entire lifecycle of a significant software project, from requirements analysis to system delivery and testing. In addition to software system deliverables, teams will be responsible for writing software specifications and training materials, as well as making multiple presentations to customers and faculty. Lecture - 3 hours; Laboratory - 2 hours. This course is normally offered in the spring semester.

4253 THEORY OF COMPUTING

An introduction to the theory of computation. Topics include languages, finite state automata, context free grammars, Turing machines, complexity classes, P vs NP, quantum complexity, and the arithmetic hierarchy. Recommended for students pursuing a further graduate study. This course is normally offered as needed.

4323 DATABASE SYSTEMS

Prerequisite: CMSC-2233. An introduction to database systems. Topics include the design and implementation of the major database models. This course is normally offered in the fall semester every year.

4383 ROBOTICS AND IOT

Prerequisite: CMSC-2233. An introduction to the integration of AI and data collection and control software into physical devices. Topics include sensors, data collection, planning, robotics and IOT. Students will learn how to use the integration of software into physical devices to solve problems. Students cannot receive credit for both CMSC-4383 and CMSC-5383. This course is normally offered in the fall semester.

4413 OPERATING SYSTEMS

Prerequisites: CMSC-2233. Corequisite: CMSC-3443, or CENG-3203X. An examination of the major features of an operating system and its interaction with the hardware at the register level. Topics include memory management, job scheduling, and multi- programming. This course is normally offered in the spring semester.

4433 COMPILER CONSTRUCTION

Prerequisite: CMSC-2233. An introduction to compiler construction. Topics will include lexical analysis, syntax analysis, intermediate code generation, runtime environments, code generation and optimization. This course is offered as needed.

4443 CRYPTOGRAPHY

Prerequisites: CMSC-2233. This course covers foundations and practical applications of modern cryptography. Ideas about defining security, hardness assumptions, and the possibility of proving security of complicated constructions based on low-level primitives will all be explored. Topics include: principles of modern cryptography, classical encryption schemes, private-key encryption, message authentication, hash functions, public-key encryption, and digital signatures. By the end of the course, the student will have a firm grasp of cryptographic primitives in wide use today and a knowledge of how to combine these in order to develop modern protocols for secure communication. MECH-4742 and MECH-4752 constitute a single two-semester project experience. Laboratory – 6 hours. Same as ELEC-4743 and CENG-4743. This course is normally offered every semester. Students cannot receive credit for both CMSC-4443 and CMSC-5523. This course is normally offered in the fall semester.

4513 PROGRAMMING LANGUAGES

Prerequisite: CMSC-2233. A study of the organization of programming languages. Topics include data types, sequence control, data control, and operating environment considerations. Several high-level languages will be studied. This course is normally offered in the spring semester of odd numbered years.

4643 NETWORK SECURITY

Prerequisite: CENG-4213. This course focuses on the concepts, terminology and practice of network security. Topics include the fundamental goals of network security and practical applications of wired and wireless network security techniques such as applications of cryptography in network protocols, authentication, access control, network security devices such as firewalls and intrusion detection and prevention systems, incident response, log analysis, honeypots and honeynets. This course prepares students for the CompTIA Network+ and

Security+ certification exams. Students are required to research and present an APAP format research paper. Laboratory 2 hours.

4653 CLOUD ARCHITECTURE AND SECURITY

Prerequisite: CMSC-4643. This course covers cloud computing architecture and cloud security concepts including access control and management, governance, logging, and encryption methods. It also covers security-related compliance protocols and risk management strategies, as well as procedures related to auditing cloud security infrastructure. Students will have hands-on experience designing solutions for cloud-based platforms and operations that maintain data availability while protecting the confidentiality and integrity of information. This course prepares students for the professional CompTIA CLOUD + Security certification exam. Students are required to research and present an APA format research paper.

4663 NETWORK FORENSICS

Prerequisites: CMSC-4643. Introduces digital forensic concepts and practices on local networks, wide area networks and large-scale networks such as the Internet. Lectures include topics such as investigative techniques, how to conduct a cyber investigation, manage chain-of-evidence and follow a cyber-trail. A large part of the course involves demonstrations and hands-on labs, including: use of network forensic tools such as packet monitors, security information and event managers (SIEMs), tracers, and other tools useful for analyzing events. Many of the labs involve analysis of packet captures of both actual attacks and theoretical malfeasance by offenders. Students have a final lab exercise instead of a final exam, and are required to research and present an APA format research paper. Laboratory 2 hours.

4673 COMPUTER SYSTEM RISK MANAGEMENT

This course applies the NIST Risk Management Framework (RMF) as students complete project deliverables and communicate project results, integrating Enterprise and Cloud System risk management principles and standards. Students will develop in-depth analytic competencies to relevant risk problems. Students are to research and present a Computer Risk Report instead of a final exam. This course is normally offered in the summer semester.

4683 OFFENSIVE SECURITY AND PENETRATION TESTING

Laboratory 2 hours. Prerequisite: CMSC-4643. This course prepares students to conduct successful offensive security, penetration testing, and ethical hacking projects. The course covers proper planning, scoping and reconnaissance, and then dives deep into scanning, target exploitation, password attacks, and wireless and Web applications with detailed hands-on exercises. Students will participate in an intensive, hands-on Capture the Flag exercise, conducting a penetration test against a sample target organization. This course prepares students for the professional CompTIA PenTest+ security certification exam.

4713 ARTIFICIAL INTELLIGENCE

Prerequisite: CMSC-2233. An introduction to the study of Artificial Intelligence. Topics include problem solving using state-space and problem reduction techniques, search methods, game playing, and predicate calculus. Students cannot receive credit for both CMSC-4713 and CMSC-5713. This course is normally offered every fall semester.

4723 MACHINE LEARNING

Prerequisites: CMSC-2233 and CMSC 3033. An introduction to the study of machine learning. Topics include classification, neural networks, genetic algorithms, reinforcement learning, unsupervised learning and deep learning. Students will learn how to use machine learning to solve problems. Students cannot receive credit for both CMSC-4723 and CMSC-5723. This course is normally offered in the fall and spring semesters.

4783 LARGE LANGUAGE MODELS

Prerequisite: CMSC-4713. An introduction to the study of Large Language Models (LLMs) and their applications. Students will learn the basics of how LLMs work and how to use them effectively in real-world applications. Students cannot receive credit for both CMSC-4783 and CMSC-5783. This course is normally offered in the spring semester.

4811 SEMINAR IN COMPUTER SCIENCE

Prerequisite: 35 hours of computer science. A seminar designed to unite the varied elements of the computer science major. A written and oral presentation covering a current research topic in computer science is required. This course is normally offered every semester.

4901 PRACTICUM FOR COMPUTER SCIENCE

On job experience is a valuable way for students majoring in Computer Science to practice and improve their skills. Working with real world problems enhances the theoretical curriculum we offer and gives students a new perspective on concepts they have been taught. Enrollment in this course will be under the supervision of an individual Computer Science professor, who will work with the student's supervisor. A journal or summary paper of the internship experience will be required at the conclusion of the employment period. A 12-week practicum at 20 hours per week will correspond to 1 hour of credit. Prior permission of the Computer Science department is necessary for enrollment. 1 credit hour. This course is normally offered as needed.

CRIMINAL JUSTICE (CRMJ)

1003 INTRODUCTION TO CRIMINAL JUSTICE

This course provides an introduction to the criminal justice system. The primary goal of this course is to develop a general understanding of the criminal justice system's response to crime in society. This course will serve as an overview or survey of the structure of the criminal justice system. It will introduce students to the components of the criminal justice system – police, courts, and corrections. It will prepare students to enter into more advanced courses that address each individual component more in-depth.

2003 DEVIANCE AND SOCIAL JUSTICE

This course is a critical examination of the relationship between deviance and social control. It will include how and why certain forms of behavior come to be known as deviant, it will analyze the nature of formal and informal responses to deviance, and explain the interaction of different social control institutions. Special attention will be given to an overview of general theories of deviance, and the particular forms it takes. This course is normally offered as needed.

2013 THEORIES OF CRIMINAL BEHAVIOR

The purpose of this course is to introduce you to various ways that criminal behavior is explained. In doing so, this course will cover the historical development of criminology, how criminologists examine criminal behavior, and study crime, and the major criminological theories that have been used to explain this phenomenon. This course is normally offered in the fall semester.

2023 POLICING IN AMERICA

Policing in America is a brief study of the historical development of police agencies in the world; the study of the origin of police agencies in the United States; the structure, roles, functions, and management challenges in police agencies; the relationship of the police to the community, the ever-changing dynamics and challenges of policing in the United States and how police deal with racial, socioeconomic, and ethnic groups in society. This course is normally offered in the spring semester.

2033 AMERICAN CORRECTIONS

American Corrections is the study of the historical development of prisons and jails in the United States; the structure, functions, and personnel of prisons and jails; the various philosophies that support incarceration; how inmate special needs populations are handled and emerging alternatives to physical incarceration. This course will examine the attitudes, biases, and prejudices that impact the decisions of which defendants are sent to prisons and jails. This course is normally offered in the spring semester.

3003 COMPARATIVE JUSTICE SYSTEMS

Examination of criminal justice systems worldwide. Includes exploration of means of establishing cooperation toward mutual goals despite structural, historical and ideological differences. This course is normally offered as needed.

3013 CULTURAL DIVERSITY IN CRIMINAL JUSTICE

This course is an examination of current issues and social problems relating to the administration of justice in a culturally diverse society. Special focus of the course will be on the changing ethnicity of communities and related changes in social and institutional public policy. Also discussed is cross-cultural communication, implementing cultural awareness training, multicultural representation in law enforcement, and criminal justice interaction with various racial and ethnic groups. This course is normally offered in the fall semester of odd numbered years.

3033 JUVENILE JUSTICE AND DELINQUENCY

This course will cover the history and philosophy of juvenile justice in America and the impact of present societal reforms on the juvenile system. A wide array of theoretical positions will be discussed and debated (e.g.- social structure theories, social process theories, social reaction theories, etc.). The influence of the family, media, peers, achieve a deeper understanding of civilization and culture through the lens of the study abroad location.

3023 CRIMINAL JUSTICE INTERNSHIP

Prerequisite: Junior standing and permission of instructor. An internship will give a student valuable insights and experience by being in a criminal justice agency setting. This may even lead to a student being hired upon graduation because the agency has an impression and evaluation of the student or it may lead to a major letter of recommendation in the student's future search for employment upon graduation. The students will select an agency and request permission from the agency to become an intern. Every criminal justice agency normally does a background check of the student before giving permission for that student to become an intern with that criminal justice agency.

4003 CONTEMPORARY ISSUES IN CRIMINAL JUSTICE

Contemporary Issues in Criminal Justice Criminology is the study of the making of laws, the breaking of laws and the reaction to the breaking of laws. Appreciating the importance of the first and third element requires a familiarity with politics and ideology. This course will draw your attention to this issue through our discussions, guided by the Socratic method. Exploring controversies allow us insight into just how the issues in criminal justice are effectively framed and decided. Defining deviancy is a difficult proposition, but there are better and worse methods of approaching the question. This semester will challenge you to formulate a more fully informed rationale for addressing these difficult problems through introducing you to the pros and cons of selected arguments. This course is normally offered in the spring semester of odd numbered years.

4013 CRIMINAL PROCEDURE

This course will cover the history and philosophy of juvenile justice in America and the impact of present societal reforms on the juvenile system. A wide variety of theoretical positions will be discussed and debated (e.g.-social structure theories, social reaction theories, etc.). The influence of the family, media, peers, socioeconomic status, drugs, gang affiliation, and schools will be covered in detail. An overview of the legal framework in which the juvenile justice system operates will highlight differences in adult and juvenile law.

4023 ETHICS IN CRIMINAL JUSTICE

This course is designed to familiarize students with the ethical nature of criminal justice administration through an examination and application of basic ethical theories, concepts and principles to ethical dilemmas in the major fields of criminal justice—police, courts, corrections

and management. This course is normally offered in the spring semester of even numbered years.

4033 INTRODUCTION TO CRIMINAL INVESTIGATION

This course covers the fundamental principles and procedures employed in the investigation of a crime. Emphasis is placed on the investigation of specific crimes, the identification of sources of information and the procedures necessary for the proper handling of evidence. This course is designed to develop a working knowledge of the steps of investigation beginning with the initial security of the crime scene and concluding with the presentation of evidence and proper testimony in court. This course is normally offered in the fall semester of even numbered years.

4113 COMMUNITY ORIENTED POLICING

Prerequisite: CRMJ-1003 or permission of the instructor. Community Oriented Policing explores and examines the role of police, the role(s) strain of modern police, relationship between the police and community groups and causes of friction between police and community groups. Further, this approach explores the significant influence of the media's role in community policing and the necessity for the collaboration between police and communities to solve and prevent crime. This course examines the police's interaction with special needs groups and balancing constitutional freedoms against the necessity to maintain order. Finally, the course will examine community policing in the context of the various cultures of communities and the evolving changes in various community cultures.

4053 VICTIMOLOGY

Victimology is an in-depth review of victims in the criminal justice system in the United States, including: historical victimology, theories of victimology, interaction of crime victims with other components of the criminal justice system, exploration of types of victimizations of adults and children, victimization of special groups, rights of victims in the criminal justice system, explanations for how victims become perpetrators of crime, restoration of victims to "wholeness" and an examination of the future concepts/direction in victimology.

4103 MANAGING CRIMINAL JUSTICE ORGANIZATIONS

Prerequisite: CRMJ-1003 or permission of the instructor. Managing Criminal Justice Organizations is designed to assist students in understanding leadership, supervision, authority, planning, budgeting, organizational change and other aspects of management utilized by managers in agencies in the criminal justice system. Management styles, methodologies, personnel and other issues are explored in dealing with each agency within the core criminal justice agencies of the criminal justice system.

EARLY CHILDHOOD EDUCATION (ECED)

3013 NATURE AND CHARACTERISTICS OF EARLY CHILDHOOD

Prerequisites: Admission to Teacher Education; EDUC-3213 (may enroll concurrently). After studying the broad field of Early Childhood in relation to its multiple historical, philosophical, and social foundations, the candidate will examine how these foundations influence current thought and practice. After exploring the characteristics of the young child from birth to age eight, the candidate will demonstrate observation techniques and planning skills related to developmentally appropriate practice. The candidate will also reflect on the role of the teacher and ethical considerations of the Early Childhood field. This course includes field experience which is scheduled within the time allotment of the class. (Students whose programs do not require admission to teacher education but require this course will receive credit for CHDV-3013, which cannot be applied to licensure requirements.) This course is normally offered in the fall semester.

3023 EMERGENT LITERACY

Prerequisites: admission to teacher education; ECED-3013. This course is a study of the emerging process of language development from infancy through the primary years. The candidate will observe and document a child's development through all four age categories, infant, toddler, preschooler, and primary-aged (eight practicum hours). The candidate will demonstrate understanding of and respect for the socio-cultural diversity of literacy development as well as the interrelationships of culture, language, thought, and the function of the home language. Additionally, the candidate will study children's literature to develop an understanding that literature forms a central focus for language and literacy development. The candidate will apply various methods of using literature with children in the home and classroom settings including reading aloud to a child once per week for 14 weeks (eight practicum hours). (Students whose programs do not require admission to teacher education but require this course will receive credit for CHDV-3023 which cannot be applied to licensure requirements). Same as CHDV-3023 and ELEM-3023. This course is normally offered every fall semester.

4013 COGNITIVE SKILLS

Prerequisites: admission to teacher education; ECED-3013. Practicum: 30 hours, ECED-4013P. This is a study of current thought and practice in how young children from birth to age eight learn. This course gives pre-service teachers opportunities in the implementation of meaningful, integrated learning experiences with emphasis in math, science, and social studies. The course also includes the use of developmentally appropriate methods that encourage open-ended questioning, problem solving, cooperative learning, inquiry, integrated curriculum, and the value of play. This course is normally offered in the spring semester.

4023 TOPICS IN EARLY CHILDHOOD

Prerequisites: admission to teacher education; ECED-3013. The candidate will describe and apply behavior and guidance theories for the young child from infancy through age eight. The candidate will also demonstrate techniques for planning and implementation of parental involvement, and understanding the children and their families in the context of society. (Students whose degree programs do not require admission to teacher education but require this course will receive credit for CHDV-4023, which cannot be applied to licensure

requirements.) This course is normally offered every spring semester.

4111 EARLY CHILDHOOD PRACTICUM

Prerequisites: admission to teacher education; ECED-3013; ECED-3023 and ECED-4013. Practicum: 60 hours. This class will meet one hour a week for approximately six weeks to discuss the aspect of early childhood professionalism. The field experience of 40 clock hours is divided between working in an infant/toddler child development program (30 hours) and completing an extensive child case study (10 hours). It is designed to provide the candidate the opportunity to engage in activities with young children and their families, based on what the candidate has studied in previous or concurrent early childhood coursework. While in the classroom, the teacher candidate will observe both the children and the teachers, interact with children, and plan and implement activities with the children. In addition to the classroom time, the candidate will closely observe a child within the context of the family, write a developmental profile of the child, and discuss the profile with the parents. This course is normally offered every semester.

ECONOMICS (ECON)

2113 MACROECONOMIC PRINCIPLES

A study of the economic system as a whole, dealing with price levels, employment, the level of total production of goods and services and growth. The course includes study of the free enterprise system and of government monetary and fiscal policy. This course is normally offered in the fall, spring, and summer semester.

2213 MICROECONOMIC PRINCIPLES

Prerequisite: ECON-2113. A study of specific economic units within a free enterprise economy such as individual consumers, businesses, or industries. The pricing and output of goods and services and the pricing and employment of labor and capital are studied. This course is normally offered in the fall, spring, and summer semester.

EDUCATION (EDUC)

3003 PROFESSIONAL DEVELOPMENT THEORY AND PRACTICE

This course implements theories and models of adult experiential learning to help students learn how to understand and evaluate their previous learning experiences. Students are guided through the process of developing portfolios that critically assess and effectively communicate their prior learning. The portfolios serve to challenge specified courses within a degree plan whereby students articulate, evaluate, apply, and document their previous experiential learning in a way that maps onto course learning outcomes. Upon completion of this course, students can revise and submit their portfolios for evaluation to determine whether they sufficiently meet the outcomes to be awarded additional credit hours. This is the same as LSDH-3003. This course is normally offered in the fall and spring semesters.

3023 INTERNALIZING CURRICULUM

This course is intended as an introduction to planning from a provided, high-quality curriculum and is focused primarily on English language arts and math. Participants prepare for the school year by internalizing curriculum at the year, unit, and lesson levels. This course can be completed prior to the start of the school year but does require access to the school's instructional materials.

3033 ESSENTIALS OF CLASSROOM CULTURE

This course provides foundational learning related to establishing a positive classroom culture at the beginning of a school year or teacher- class relationship. Unit topics include initiating positive relationships, establishing norms, and creating routines. It is recommended that participants complete the learning activities from this course prior to the first day of class, but completion of the portfolio of evidence requires students.

3043 INSTRUCTIONAL DELIVERY

This course is focused on the process of delivering content instruction. Participants learn how to unpack learning targets with students, how to frame, convey, and stamp content instruction, and how to respond to classroom challenges that disrupt instructional time.

3053 RELATIONSHIPS

This course builds on previous learning about establishing relationships but focuses on how to strengthen relationships with students and their families as the school year progresses. In this course, participants engage in two-way communication with families, leverage meaningful interactions to connect with students on a deeper level, and provide additional support to a student that has proven more challenging to reach.

3063 STUDENT SUPPORT

Each student brings a unique set of background knowledge, skills, and strengths to a classroom. This course is focused on ensuring all students are successful, even those who may have different needs than their peers. Participants learn how to navigate structures within their schools to co-plan with other teachers, scaffold complex tasks, and use flexible grouping to ensure all students have the support they need to meet content objectives.

3073 ESSENTIALS OF ASSESSMENT

Assessments are "the wide variety of methods or tools that educators use to evaluate, measure, and document the academic readiness, learning progress, skill acquisition, or educational needs of students" (Great Schools Partnership, 2015, para. 1). Educators rely on assessments to provide the evidence of student learning. This course teaches participants how to purposefully choose assessment methods; scrutinize and, if necessary, improve the quality of tests before administering them; and use results to inform instruction.

3103 ELA METHODS I

A 2005 analysis of scores on the ACT revealed that "only 51 percent of ACT tested high school graduates met ACT's College Readiness Benchmark for Reading, demonstrating their readiness to handle the reading requirements for typical credit-bearing first-year college coursework" (ACT, 2006). This number was even lower for male students, African American students, Hispanic American students, Native American students, and students from families whose yearly income is below \$30,000. In response to this analysis and other indicators that students lacked the reading skill necessary for college and careers, national attention focused on how to increase rigor within English language arts (ELA) classes. The college and career readiness standards that emerged reflect three important shifts: increasing text complexity; grounding reading, writing, and speaking in evidence from texts; and building knowledge through content-rich nonfiction. This introductory methods course is focused on the theory behind these shifts, as well as how to implement them in an ELA classroom.

3121 ORIENTATION TO TEACHER EDUCATION

Prerequisites: ENGL-1113 with a grade of C or better, 2.65 cumulative GPA, and has taken a minimum of 30 hours of coursework. Practicum: 33 hours. Prospective candidates will be placed in a public school with a diverse student population to observe instructional classroom management and assessment strategies used by classroom teachers. Students will apply for admission to Teacher Education. This course is normally offered every semester.

3122 THE SCHOOL IN AMERICAN CULTURE

Pre- or corequisites: Completion of ENGL-1113 with a grade of C or above or concurrent enrollment in ENGL-1113. Must have completed at least one semester of coursework at OC, have an overall GPA of 2.65 or greater and a minimum of 12 hours of coursework completed. Prospective candidates will be able to explain the role and contributions of education in a democratic society and to state their personal philosophies of education. Emphasis is placed on history, philosophies, and current trends. Course must be completed with a grade of C or better to gain admission to Teacher Education. This course is normally offered every semester.

3123 MATH METHODS I

Research studies of mathematics education in high-performing countries have concluded that math achievement in the United States has been undermined in the past by "mile wide, inch deep" curriculum. The college and career readiness standards that emerged to address this problem reflect three important shifts: greater focus on fewer topics; coherence or linking topics and thinking across grades; and rigor or pursuing conceptual understanding, procedural skills and fluency, and application with equal intensity. This introductory methods course is focused on the theory behind these shifts, as well as how to implement them in a math classroom.

3131 CLASSROOM MANAGEMENT STRATEGIES

Prerequisites: Overall GPA 2.75, Major GPA 3.0. Corequisite: Concurrent enrollment in EDUC-4133 and student teaching. Concurrent enrollment in practicum (recommended). Candidates will relate self-image and communications skills to classroom, parent, and colleague interaction. Emphasis is placed on warmth, empathy, and genuineness; cultural diversity issues will be strongly emphasized through participation and activities, guest speakers, and in-depth study. Candidates will review behavior in classroom management theories in preparation for clinical practice. This course is normally offered every semester.

3133 CLASS MANAGEMENT

Candidates will enhance knowledge and skills in behavior management theories based on discipline models that reflect current research. Candidates will make connections between effective classroom management and positive classroom climates.

3213 LEARNING, INSTRUCTION AND ASSESSMENT

Prerequisite: Admission to Teacher Education. Candidates will be able to relate contemporary theories of learning to instruction and develop skill in planning, instruction, and assessment of student learning. Focus: Oklahoma core curriculum and instructional strategies, plans based in Oklahoma C3 Standards, and common core state standards. (Majors in the College of Bible may enroll with permission of the instructor as the only prerequisite.) This course is normally offered every semester.

3421 EDUCATIONAL TECHNOLOGY

Prerequisite: Admission to Teacher Education. Corequisite: Concurrent enrollment in appropriate student teaching courses. This face to face course will introduce the use of Google products, ChromeBook, Swivl, and SMART Technology to prepare instructional materials to enhance classroom instruction. Competence in digital communication with parents and students will be stressed, as well as ethical usage of educational technology. This course is normally offered in fall and spring semesters.

3723 EDUCATION OF THE EXCEPTIONAL CHILD

Prerequisite: Admission to Teacher Education. This course should be taken the semester before student teaching. After surveying various types of exceptionalities found in children and adolescents, candidates will be able to suggest adaptations in classrooms and teaching strategies to meet the needs of PK-12 students who have identified exceptionalities. This course is normally offered every semester and some summers.

4013 HUMAN RELATIONS AND CULTURAL AWARENESS

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0. Corequisite: Concurrent enrollment in EDUC 4132, EDUC 4131 and Student Teaching. During the course, candidates will relate self-image and communications skills to classroom, parent, and colleague interaction. Emphasis is placed on warmth, empathy, and genuineness. Cultural diversity issues will be strongly emphasized through participation in activities, guest speakers, readings, and in-depth study. This course is normally offered every semester.

4033 EDUCATIONAL PEDAGOGY

This course relates contemporary theories of learning to instruction. The course develops skills in planning, instruction, and assessment. It also concentrates on developing instructional strategies based on the state standards. This course is offered only to non-degree seeking students who are admitted into the Academy of Alternative Certification and is not intended for the undergraduate students in the School of Education.

4043 APPLIED INSTRUCTION AND ASSESSMENT

A three-hour, senior-level course taken during the final semester of the program. Candidates will acquire additional knowledge and skills in the areas of effective instructional strategies and assessment practices and apply their learning in the field via the APK. Required prerequisites –EDUC 3213 Learning, Instruction and Assessment.

4053 INTRODUCTORY DISCIPLINARY METHODS

This course provides an introduction to disciplinary methods, including research-based approaches to science, social studies, and digital literacy instruction. The units explain the theory behind recent shifts in each content area and then require participants to locate evidence of those shifts in instructional plans (science and social studies) or apply best practices in a lesson (technology integration).

4073 SCIENCE OF READING

Reading is a complex cognitive process. Reading requires both the ability to decode the words on the page and the ability to make sense of those words. Word recognition must take place automatically and language comprehension skills must be applied strategically to enable skilled reading. The National Reading Panel comprehensively reviewed research findings to identify five components of effective reading instruction: phonemic awareness, phonics, fluency, vocabulary, and comprehension. This course is focused on developing an understanding of the components of effective literacy instruction as well as the classroom practices that support them. It is designed to be completed over the summer and does not require access to students.

4103 PSYCHOLOGY OF EDUCATION

This course provides an overview of the history of pedagogical theory with a focus on the last decade of advances in cognitive psychology. Participants reflect on how these findings can be practically applied in the classroom, while also recognizing the aspects of teaching and learning that are still not fully understood. Due to its heavy focus on theory, this course can be completed over the summer and does not require access to students.

4112 LITERACY IN THE SECONDARY CONTENT AREAS

Prerequisites: EDUC-3213; Admission to Teacher Education. Practicum: 33 hours (EDUC-4112P). Candidates will learn and practice instructional strategies to effectively integrate writing, listening, speaking, reading comprehension, vocabulary development, and digital literacies into their teaching so that all students will learn. Candidates will focus on literacy as it applies to the various content areas. This course is normally offered in the spring semester.

4131 APPLIED INSTRUCTIONAL AND ASSESSMENT STRATEGIES

Prerequisite: Admission to student teaching. A one-hour course for senior education majors taken during the student teaching semester. Candidates will acquire additional knowledge and skills in the areas of effective instructional strategies and assessment practices and apply their learning in the field via the APK. This course is P/NP. This course is normally offered every semester.

4143 SPECIAL POPULATIONS

In this course, participants learn about special populations of students, including students with disabilities, English Learners, and gifted students. Each unit in the course is structured in the same way to provide 1) an overview of relevant laws and policies, 2) characteristics of identified students, and 3) methods for supporting those students. This course is designed to be completed over the summer and does not require access to students.

4153 EDUCATION AS AN INSTITUTION^A

This course supports participants in developing a thoughtful philosophy of education through the exploration of the history of education in the United States, as well as current systemic issues. This course is designed to be completed over the summer and does not require access to students.

4163 CLASSROOM CULTURE II^A

In an educational context, class culture should recognize that disparities in achievement among subgroups of students are the result of opportunity gaps, not capability gaps. Educators must expect and support every student to succeed within the school environment and beyond, with explicit attention to how personal and structural circumstances may influence the types and level of support needed. This course is designed to increase participants' awareness of and sustain an effective classroom culture.

4173 ESSENTIALS OF STUDENT-CENTERED LEARNING

While "student-centered learning" can be used to describe a variety of instructional approaches, for this program of study, it is defined as educational practices that motivate students to be actively engaged in their own learning and require students to perform the majority of the cognitive lifting. This course focuses specifically on inclusive discussions, collaborative learning structures, and student agency.

4203 ADVANCED INSTRUCTIONAL STRATEGIES^A

This course builds on learning from the Psychology of Education course with a deeper focus on classroom application. The units focus on strategies to support students with processing new content, remembering information, and applying learning, while also providing guidance about when it is most appropriate to employ the various strategies.

4213 ELA METHODS II

This course builds on ELA Methods I, providing deeper learning on the topics of planning, speaking and writing instruction, and assessment. It prepares participants to effectively implement high-quality ELA curriculum.

4223 MATH METHODS II

This course builds on Math Methods I, providing deeper learning on the topics of assessment, mathematically productive discussions, and analysis of student work. It prepares participants to effectively implement high-quality math curriculum.

4231 CRITICAL ISSUES IN EDUCATION

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0 Corequisite: Concurrent enrollment EDUC-4012 and student teaching. Candidates demonstrate skills in communicating with students, parents, colleagues, and others in the school community. Emphasis is placed on the role of the teaching profession in curriculum change and school improvement. This course is normally offered every semester.

4233 SCIENCE METHODS I

This course builds on Introductory Disciplinary Methods, providing deeper learning on the topics of three-dimensional science instruction, phenomenon-based instruction, and formative assessment in science. It prepares participants to effectively implement a high-quality science curriculum.

4243 SOCIAL STUDIES METHODS I

This course is focused on using the inquiry arc in social studies, source analysis, and argumentation. It prepares participants to effectively develop and implement high-quality social studies curriculum.

4331 CLASSROOM MANAGEMENT STRATEGIES II

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0. Corequisite: Concurrent enrollment in EDUC-4133 and student teaching. Concurrent enrollment in practicum (recommended). Candidates will relate self-image and communications skills to classroom, parent, and colleague interaction. Emphasis is placed on warmth, empathy, and genuineness; = cultural diversity issues will be strongly emphasized through participation and activities, guest speakers, and in-depth study. Candidates will review behavior in classroom management theories in preparation for clinical practice. This course is normally offered every semester.

4411 RECREATION WITH EXCEPTIONAL CHILDREN

This class allows students to work with physically and mentally disabled students. All work is done within a lab setting involving physical education and recreation skills. This course is an activity course.

4442 SECONDARY VOCAL MUSIC METHODS

Prerequisites: EDUC-3213; Admission to Teacher Education. Methods for teaching vocal music at secondary school levels. This course includes 18 hours of field experience. This course is normally offered in the fall semester even years.

4463 METHODS OF TEACHING MATHEMATICS IN SECONDARY SCHOOLS

Prerequisites: EDUC-3213; Admission to Teacher Education. Practicum: 45 hours (EDUC-4463P). Methods and materials for instruction and evaluation in mathematics at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.

4473 METHODS OF TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS

Prerequisites: EDUC-3213; Admission to Teacher Education. Practicum: 45 hours (EDUC-4473P). Methods and materials for instruction and evaluation in social studies at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.

4533 METHODS OF TEACHING SCIENCE IN SECONDARY SCHOOLS

Prerequisites: EDUC-3213; Admission to Teacher Education. Practicum: 45 hours (EDUC-4533P). Methods and materials for instruction and evaluation in science at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.

4553 METHODS OF TEACHING LANGUAGE ARTS IN SECONDARY SCHOOLS

Prerequisites: EDUC-3213; Admission to Teacher Education. Practicum: 45 hours (EDUC-4553P). Methods and materials for instruction and evaluation in language arts at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.

4618 STUDENT TEACHING IN THE ELEMENTARY SCHOOL

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0. Corequisite: Concurrent enrollment in EDUC-4013, EDUC-4131, EDUC-4231, and EDUC4331. Candidates will demonstrate competencies required by Oklahoma for licensure in elementary education during two 6-week assignments in two grade levels in public schools in the Oklahoma City metropolitan area. Each OC candidate will be observed and evaluated regularly by a faculty member from the OC School of Education. Student teachers will meet weekly with university supervisors. This course is normally offered every semester.

4718 STUDENT TEACHING IN THE SECONDARY SCHOOL

Prerequisites: Admission to student teaching; major GPA 3.0. Other: Concurrent enrollment in EDUC-4013, EDUC-4131 EDUC-4231, and EDUC-4331. Candidates will demonstrate competencies required by Oklahoma for licensure in grades 7-12 during two 6-week assignments, one in a high school and one in a middle/junior high school, in the Oklahoma City metropolitan area. Each OC candidate will be observed and evaluated regularly by an OC

School of Education faculty member. Student teachers will meet on campus weekly with university supervisors. This course is normally offered every semester.

4721 EDUCATIONAL PEDAGOGY

This course relates contemporary theories of learning to instruction. The course develops skills in planning, instruction, and assessment. It also concentrates on developing instructional strategies based on the state standards. This course is offered only to non-degree seeking students who are admitted into the Academy of Alternative Certification. Practicum using data gained from pre-testing to construct lesson plans and assess and reflect on gains in student learning. This course is normally offered in the fall semester.

4818 STUDENT TEACHING IN THE ELEMENTARY AND SECONDARY SCHOOLS

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0. Corequisite: Concurrent enrollment in EDUC-4013, EDUC-4131, EDUC-4231, and EDUC4331. Candidates will demonstrate competencies required by Oklahoma for licensure in grades K-12. Candidates will be assigned to a secondary school, either junior high/middle or high school, and to an elementary school (Oklahoma City metropolitan area) to complete 6 weeks of student teaching in each. Each OC candidate is observed and evaluated regularly by an OC School of Education faculty member. Student teachers will meet weekly with university supervisors. This course is normally offered every semester.

ELECTRICAL ENGINEERING (ELEC)

3303 ANALOG ELECTRONICS

Prerequisite: Admitted into ECE or MECH-2623. Analog circuits with an emphasis on power circuits, transformers, operational amplifiers, and interfacing with sensors and digital systems. Lecture 2 hours; Laboratory 3 hours. This course is normally offered in the fall semester.

3313 ELECTRONIC DEVICES

Prerequisite: Admitted to ECE. Introduction to basic semiconductor devices: diodes, bipolar junction transistors, and field-effect transistors. Discrete component electronics. Introduction to integrated circuits. Lecture 2 hours; Laboratory 3 hours. This course is normally offered in the spring semester.

3403 CONTINUOUS-TIME LINEAR SYSTEMS

Prerequisite: Admitted to ECE. Time and frequency domain analysis of Linear Time-Invariant Continuous-Time (LTIC) systems. Representation of signals and systems through the use of Fourier series, Fourier and Laplace transforms. LTIC system modeling and realization of electrical systems with transfer functions. This course is normally offered in the fall semester. Lecture 2 hours; Laboratory 3 hours.

3503 DISCRETE-TIME LINEAR SYSTEMS

Prerequisites: Admitted to ECE and ELEC-3403. Time and frequency domain analysis of Linear Time-Invariant Discrete-Time (LTID) systems using difference functions, Fourier transforms, and Z-transforms. LTID system modeling and system realization with transfer functions. Introduction to stochastic processes. Lecture 3 hours. This course is normally offered in the spring semester.

3523 DIGITAL SIGNAL PROCESSING

Prerequisites: Admitted to ECE and ELEC-3503. Analysis, design, and implementation of discrete-time systems. FIR/IIR systems, parametric and non-parametric power spectrum estimation and optimal filtering, finite-word length effects. Lecture 2 hours; Laboratory 3 hours. This course is normally offered in the spring semester.

3613 ELECTROMAGNETIC FIELDS

Prerequisite: Admitted into ECE. A study of Maxwell's equations and applications; EM waves, transmission lines, and introduction to antennas. Lecture 3 hours; Laboratory 0 hours. This course is normally offered in the fall semester.

4133 ADVANCED CONCEPTS IN SOFTWARE ENGINEERING

Prerequisites: Admitted to ECE and CENG-4113. A deep dive into the V-Model of software development with an emphasis on verification and validation. An introduction into concepts required for the development of highly complex code such as CI/CD, safety, security, and distributed design.

4323 SEMICONDUCTOR DEVICES

Prerequisite: ELEC-3313. Introduction to physics of semiconductor devices. The three electronic devices from Introduction to Electronics are brought from basic physics to current-voltage characteristics and circuit models. Lecture 3 hours. This course is normally offered in the summer semester.

4423 CONTROL SYSTEMS

Prerequisites: Admitted to ECE and ELEC-3403. Control system theory of continuous time systems. Modeling physical systems through transfer functions and state space descriptions. System performance measures including stability, transient response, steady state response, and sensitivity. Classical and modern control techniques; root locus, frequency response methods and PID control. Lecture 2 hours; Laboratory 3 hours. This course is offered as needed.

4433 MECHATRONIC SYSTEM DESIGN

Prerequisite: MECH-4003, ELEC-3303, and ELEC-4423. Modeling and evaluation of mechatronic and electrical systems. The course will utilize a project-based approach that follows the V-Model framework for systems engineering. Topics include: model-based systems engineering; system performance criteria and evaluation; and mixed-technology design and

integration. This course is normally offered in the spring semester. Lecture 2 hours; Laboratory 3 hours. (Same as MECH-4433)

4523 SOFTWARE ENGINEERING OF REAL-TIME SYSTEMS

Prerequisite: Admitted to ECE. Design and implementation of real-time embedded digital signal processing systems. DSP programming, real-time operating systems, parallel processing, host computer interfacing. Lecture 2 hours; Laboratory 3 hours. This course is normally offered in the spring semester.

4732 SYSTEMS DESIGN I

Prerequisites: Admitted to ECE, CENG-3203, ELEC-3313, and ELEC-3403. A recap and extension of problem-solving skills introduced in earlier courses using a system design approach; to prepare the student for the capstone design project work of ELEC-4742 and ELEC-4752; topics to include engineering design terminology, methodology and procedures; technical memos and reports; safety, ethics, information gathering and team dynamics. Significant emphasis on oral presentations is included. Laboratory 3 hours. Same as CENG-4732 and MECH-4732. This course is normally offered in the spring semester.

4743 SYSTEMS DESIGN II

Prerequisite: ELEC-4732. Corequisite: CENG-4732. An implementation of the design methodology covered in Systems Design I. Applications of research and design relating to real world or industry problems; interaction with other fields of engineering and science. ELEC-4743 and ELEC-4753 constitute a single two-semester project experience. Laboratory 6 hours. (Same as MECH-4743 and CENG-4743.) This course is normally offered in the fall semester.

4753 SYSTEMS DESIGN III

Prerequisite: ELEC-4743. A continuation and completion of the capstone design project begun in ELEC-4743. Students not successfully completing the entire project must normally retake ELEC-4743 and ELEC-4753 with a new project assignment. Laboratory 6 hours. (Same as MECH-4753 and CENG-4753.) This course is normally offered in the spring semester.

4920 INTERNSHIP FOR ENGINEERING PRACTICE

Prerequisite: Junior or Senior standing. The engineering programs encourage all students to participate in at least one summer of engineering internship work. The engineering internship experience is very important to providing real-world application of the classroom experience and also has become an expectation by employers of engineers internationally. Enrollment in this course will be under the supervision of an individual engineering professor. A journal or summary paper of the internship experience will be required at the conclusion of the employment period. 1 to 3 credit hours, with 1 credit hour awarded for every 50 hours the student works, not to exceed 3 hours per semester. This course is offered as needed, on a case-by-case basis, through coordination with the international office.

ELEMENTARY EDUCATION (ELEM)

3023 EMERGENT LITERACY

Prerequisites: Admission to Teacher Education; ECED-3013. This course is a study of the emerging process of language development from infancy through the primary years. The candidate will observe and document a child's development through all four age categories, infant, toddler, preschooler, and primary-aged (eight practicum hours). The candidate will demonstrate understanding of and respect for the socio-cultural diversity of literacy development as well as the interrelationships of culture, language, thought, and the function of the home language. Additionally, the candidate will study children's literature to develop an understanding that literature forms a central focus for language and literacy development. The candidate will apply various methods of using literature with children in the home and classroom settings including reading aloud to a child once per week for 14 weeks (eight practicum hours). (Students whose programs do not require admission to teacher education but require this course will receive credit for CHDV-3023 which cannot be applied to licensure requirements.) Same as ECED-3023 and CHDV-3023. This course is normally offered every fall semester.

3233 PRIMARY READING

Prerequisite: Admission to Teacher Education. Practicum: 20 hours (ELEM-3233P). The focus of this course includes the early developmental stages of literacy elements, including phonemic awareness, phonics, vocabulary, spelling, fluency, and comprehension. The construction of reading lesson plans, ELL students, student diversity, and a variety of learning styles will be addressed. During the practicum portion of the course, candidates will pre/post-test and present lessons based upon the pre-test results, assess, and reflect on gains in student learning. The role of RTI will be included. A case study is required. This course is normally offered in the spring semester.

3323 MOVEMENT AND FINE ARTS

Prerequisites: Admission to teacher education or concurrent enrollment in EDUC-3121 and EDUC-3122. Candidates design materials, demonstrate instructional methods, and create activities for integrating movement, art and music, and health and fitness activities into the PK and elementary classroom. This course is normally offered in the spring semester.

3332 ELEMENTARY LANGUAGE ARTS

Prerequisites: Admission to Teacher Education; ELEM-3233. Corequisite: Concurrent enrollment ELEM-3632, ELEM-3733, ELEM-3832; ELEM-3900P. The focus of this course includes writing (process, types, grammar, punctuation, spelling, handwriting), listening, speaking, viewing, visually representing, and assessment. The construction of language arts lesson plans, ELL students, student diversity, and a variety of learning styles will also be addressed. Candidates will be prepared to present language arts lessons in Primary Practicum using data gained from pre-testing to construct lesson plans and assess and reflect on gains in student learning. This course is normally offered in the fall semester.

3632 SOCIAL STUDIES FOR PRIMARY STUDENTS

Prerequisites: Admission to teacher education; EDUC-3213. Corequisite: concurrent enrollment in ELEM-3333, ELEM-3733, ELEM-3832; ELEM-3900P. Candidates will rely on current thought and trends in social studies instruction to develop teaching strategies which engage students in learning and which encourage the development of a multicultural view. This course is normally offered in the fall semester.

3733 MATHEMATICS FOR PRIMARY STUDENTS

Prerequisites: Admission to Teacher Education; MATH-2913. Corequisite: Concurrent enrollment in ELEM-3333; ELEM-3632; ELEM-3832; ELEM-3900P. Candidates will demonstrate their knowledge of number sense, geometry, measurement, algebra, and data by creating and presenting lesson plans using manipulatives to teach primary students number concepts and basic problem-solving skills. In their plans, candidates incorporate the five process standards: problem solving, reasoning and proof, communication, connections, and representation. Content emphasis is placed on teaching the four basic mathematical operations. This course is normally offered in the fall semester.

3832 SCIENCE FOR PRIMARY STUDENTS

Prerequisites: Admission to Teacher Education; EDUC-3213. Corequisite: Concurrent enrollment ELEM-3333, ELEM-3632, ELEM-3733; ELEM-3900P. Candidates will gain knowledge about methods, materials, and experiences that enable them to teach with an awareness and understanding of the impact of science in the world of the primary student. The focus is hands-on instruction for the biological, earth, and physical sciences. A school-based experience is incorporated. This course is normally offered in the fall semester.

3900P PRIMARY PRACTICUM

Corequisite: Concurrent enrollment ELEM-3333; ELEM-3632; ELEM-3733; ELEM-3832. A primary grade (Pre-K-3) practicum, 60 hours. The focus of the practicum is for the candidate to construct and present lessons in literacy, math, science, and social studies at the primary level. Supervision and assessment of the candidate will be conducted by a university supervisor and the classroom teacher. This course is normally offered in the fall semester.

4242 SOCIAL STUDIES FOR INTERMEDIATE STUDENTS

Prerequisites: Admission to Teacher Education; EDUC-3213. Corequisite: Concurrent enrollment ELEM-4342, ELEM-4433, ELEM-4443; ELEM-4900P. Candidates will develop teaching strategies, including hands-on activities that integrate knowledge and methodology from history and social studies and are appropriate for intermediate classrooms. Emphasis is placed on current thought and practice in social studies instruction for teaching students to use a wide variety of research sources to create oral, written and pictorial presentations. This course is normally offered in the spring semester.

4342 MATHEMATICS FOR INTERMEDIATE STUDENTS

Prerequisite: Admission to Teacher Education. Corequisites: Concurrent enrollment ELEM-4242; ELEM-4433; ELEM-4443; ELEM-4900P. Candidates will develop strategies for teaching the construction and exploration of estimation strategies. Content emphasis is placed on teaching concepts of measurement, geometry, algebra, statistics, probability, problem solving, reasoning, and communication of mathematical connections. This course is normally offered in the spring semester.

4433 INTERMEDIATE READING

Prerequisites: Admission to Teacher Education; ELEM-3333. Corequisite: Concurrent enrollment ELEM-4242; ELEM-4342; ELEM-4443; ELEM-4900P. The focus of this course includes the intermediate stages of literacy elements, including vocabulary, spelling, fluency, and comprehension. The use of narrative and expository texts will also be addressed. The construction of reading lesson plans for the intermediate grade child, ELL students, student diversity, and reluctant readers will also be addressed. Candidates will be prepared to present reading lessons in Intermediate practicum using data gain from pre-testing to construct lesson plans and assess and reflect on gains in student learning. The role of RTI will be reviewed. This course is normally offered in the spring semester.

4443 SCIENCE FOR INTERMEDIATE STUDENTS

Prerequisite: Admission to Teacher Education. Corequisite: Concurrent enrollment ELEM-4433; ELEM-4242; ELEM-4342; 4900P. Candidates will be able to use inductive and deductive strategies involving observation, scientific investigation, interpretation of findings, and communication of results while engaging in hands-on instruction. Biological, earth and physical sciences are viewed as an integrated discipline. A school-based experience is incorporated. This course is normally offered in the spring semester.

4544 STRATEGIES FOR READING ASSESSMENT

Prerequisites: Admission to Teacher Education; ELEM-4433. Practicum: 24 hours (ELEM-4543P). Candidates will know, understand, and use current thought and practice regarding reading assessment practices and intervention practices such as prescriptive teaching procedures. The candidate will apply the knowledge and understanding gained in the OC Reading Clinic with an individual child. This course is normally offered in the fall semester.

4900P INTERMEDIATE PRACTICUM

Concurrent enrollment ELEM-4242; ELEM-4342; ELEM-4433; ELEM-4443. An intermediate grade (4-5) practicum, 60 hours. The focus of the practicum is for the candidate to construct and present lessons in literacy, math, science, and social studies at the intermediate level. Supervision and assessment of the candidate will be conducted by a university supervisor and the classroom teacher. This course is normally offered in the spring semester.

ENGINEERING SCIENCE (ENGR)

1113 ENGINEERING MATHEMATICS

A survey of the particular areas of mathematics as they apply to the field of engineering. Specific emphasis will be placed on vectors, complex numbers, and matrix methods. Active learning exercises will be utilized throughout the course to demonstrate the utility of the concepts being introduced. Lecture – 2 hours. Recitation – 2 hours. This course is normally offered in the fall semester.

1122 ENGINEERING COMPUTING

Prerequisite: ACT Math score of 23 or higher or MATH-1614. An introduction to software that will be required in the engineering curriculum. Excel, MathCAD, and MATLAB will be covered. Students will design and build a small system in class which will then be used as the source problem for applying the software tools under study. Laboratory – 6 hours. This course is normally offered in the fall semester.

1132 PROCEDURAL PROGRAMMING

Corequisite: ENGR-1113. An introduction to structured programming focusing on algorithm development and implementation. Lecture – 1 hour; Laboratory – 3 hours. This course is normally offered every semester.

1242 ENGINEERING FUNDAMENTALS

Prerequisite: ENGR-1122. Fundamentals of computer, electrical and mechanical engineering design and analysis. Students will use design principles to complete an electromechanical system. Lab - 6 hours. This course is normally offered in the spring semester.

1251 INTRODUCTION TO SOLID MODELING

An introduction to solid modeling, including discussion of the elements required for correct and accurate mechanical drawings. A semester project involving the design and analysis of a component is required. A survey of computer aided design tools is provided. Lecture – 1 hours. This course is normally offered in the fall semester.

1701 THE CHRISTIAN ENGINEER I

Integration of the Christian faith into the engineering profession, with an emphasis on investment of gifts and talents, and the importance of community. Topics include gift and faith development, being a part of the engineering community, the importance of service into our lives as engineering students and eventually as engineers, and the view and opportunity of vocation as ministry. Course will include guest speakers from the engineering community. Lab – 3 hours. This course is normally offered in the fall semester.

2113 ECE MATHEMATICS I

Prerequisite: ACT Math score of 23 or higher or MATH-1614. This course covers non-calculus mathematical topics required for Electrical and Computer Engineering majors. Topics include Number Systems, Graph Theory, Series, Discrete Probability, Boolean Algebra, and Computational Modeling. This course explores these mathematical topics with a focus on application in future Electrical and Computer Engineering courses. Lecture – 3 hours. This course is normally offered in the spring semester.

2123 ECE MATHEMATICS II

Prerequisite: MATH 2214. Introduction to probability, random variables, common distribution functions, joint random variables, covariance and correlation. Applications in electrical and computer engineering. Lecture – 3 hours. This course is normally offered in the spring semester.

2213 DIGITAL SYSTEMS DESIGN

Prerequisite: ENGR-1242 and ENGR-2113. Develops a fundamental understanding of combinational and sequential digital circuits and the design of digital systems using various levels of modern IC technology. Lecture 2 hours, laboratory 3 hours.

2313 STATICS

Corequisite: MECH-1011 and MATH-2114. This class is the first of three courses in the study of mechanics. Statics is the study of forces applied to structures. An understanding of statics is a prerequisite for studying the strength of material and dynamics. Lecture – 3 hours. This course is normally offered in the spring semester.

2433 THERMODYNAMICS I

Corequisite: PHYS-2614. An introduction to the analysis of thermal processes, devices and systems. Thermodynamic properties of pure substances; First and Second Law applications for closed and open systems; power and refrigeration cycle analysis. Lecture - 3 hours. This course is normally offered in the spring semester.

2523 DYNAMICS

Prerequisite: ENGR-2313 and PHYS-2514. A study of force action related to displacement, velocity, and acceleration of particles and rigid bodies using translation and rotation, work and energy, and impulse and momentum principles. Lecture – 3 hours. This course is normally offered in the fall semester.

2533 STRENGTH OF MATERIAL

Prerequisite: ENGR-2313. This class is the second of three courses in the study of mechanics. Strength of materials is the study of stress and strain in structures caused by the application of forces and moments. An understanding of strength and materials is a prerequisite for studying machine design and doing engineering structural design. Lecture – 3 hours. This course is normally offered in the fall semester.

2613 ELECTRICAL CIRCUIT ANALYSIS

Prerequisite: ENGR-2213. Introduction of electrical components (inductors, capacitors, resistors) and electronic components [operational amplifiers and the bipolar junction transistor (BJT)] in circuit applications. Network time-domain analysis and first and second-order system response. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

2701 THE CHRISTIAN ENGINEER II

Integration of the Christian faith into the engineering profession, with an emphasis on ethics and the influence on behavior of the Christian Engineer. Topics include integrating professionalism and ethics, faith development, and including purposeful service into our lives as engineering students and eventually as engineers, and the view and opportunity of vocation as ministry. Students will develop and apply a code of ethics based on Christian values and professional standards. Course will include guest speakers from the engineering community. Lab – 3 hours. This course is normally offered in the fall semester.

3023 ENGINEERING PROBABILITY AND STATISTICS

Prerequisite: MATH-2214. Topics in mathematics with direct application to the solving of engineering problems. Discrete statistics and random variables. Lecture – 3 hours. This course is normally offered in the fall semester.

3213 ENGINEERING ECONOMICS

Prerequisite: Junior standing. History, money supply, supply and demand, time value of money, money management, economic measurement, break-even analysis, system analysis, and decision-making in engineering and management. Lecture - 3 hours. This course is normally offered every semester.

3701 THE CHRISTIAN ENGINEER III

Integration of the Christian faith into the engineering profession, with an emphasis on stewardship and innovation. Topics include the interaction of engineering, business, economics, ethics, and Christianity; engineering and business as mission; and engineering economics. Course will include guest speakers from the engineering community. Lab – 3 hours. This course is normally offered in the fall semester.

4701 THE CHRISTIAN ENGINEER IV

Integration of the Christian faith into the engineering profession, with an emphasis on the role of faith and service of the Christian Engineer. Topics include professionalism and ethics, resume and interview preparation, job and graduate school search, leadership in and contribution to a local congregation, and vocation as ministry. Course will include guest speakers from the engineering community. Lab – 3 hours. This course is normally offered in the fall semester.

ENGLISH (ENGL)

0120 METACOGNITIVE WRITING STRATEGIES LAB

Students with an ACT of 18 or lower OR not submitted are required to take ENGL-1020 lab unless they submit a CLT score of at least 57, SAT of 980, Accuplacer of 245, or IB of 4. This course is graded with a (P) Passing or (NP) No Passing grading system. Students enrolled in ENGL-0120 must make a P (Passing) in order to pass ENGL-1113 English Composition I which they will take at the same time. Students will have to retake both course and lab if they do not pass either. This course is normally offered every semester.

1113 ENGLISH COMPOSITION I

The first course in college-level writing using contemporary technology. The course emphasizes the composing process, analytical thinking, various types of writing, basic research methods and documentation. Writing includes a journal, a personal essay, a research report, analytical essays and a short research paper sustaining a thesis. Students enrolled in ENGL-1113-English Composition I must make a grade of "C" or better in order to enroll in ENGL-1213-English Composition II. This course is normally offered every semester.

1213 ENGLISH COMPOSITION II

Prerequisites: ENGL-1113 with a grade of "C" or better. The second and final course in the composition series, emphasizing written presentation of academic research-supported argument using contemporary technology. Students are taught to read and think critically in analyzing texts and evaluating sources and to communicate their ideas in an appropriate medium and style. This course builds on skills learned in English Composition I, and includes an extensive research project. Students enrolled in ENGL-1213-English Composition II must make a grade of "C" or better in order to enroll in ENGL-2213: Perspectives in Literature. This course is normally offered every semester.

2213 PERSPECTIVES IN LITERATURE

Prerequisite: ENGL-1213 with a grade of "C" or better. This course is an introduction to great literature of the world, focusing on the deepening and broadening of the students' perspectives to help them become thinkers, readers, and writers for life. (CLEP test credit will not be accepted for this course.) This course is normally offered every semester.

2223 INTRODUCTION TO WRITING ABOUT LITERATURE

Prerequisite: ENGL-1213 with a grade of "C" or better, English majors only. Does not substitute for Perspectives in Literature. An introduction to thinking critically and analyzing texts within the field of literature. This course explores primary sources and secondary research related to various genres and time periods of literature from around the world. The course includes both a written and oral presentation. This course is normally offered as needed.

2333 TEFL EXPERIENCE

Introduction to English language teaching through supervised lessons with non-native English speakers (NNEs). Students will observe and interview experienced English language teachers (ELTs), complete an initial job search, document 20 hours of instruction with NNEs, and meet weekly with the instructor. This course contributes 3 credits toward TEFL Certification. This course is available during fall semester.

3013 LITERARY CRITICISM

Prerequisite: ENGL-1213 with a grade of "C" or better. Non-majors by permission only. An introduction to critical and theoretical methods with special attention to the elements of literary study and analysis, the major critical documents, and present critical approaches. This course is normally offered in the fall semester of odd numbered years.

3023 UTOPIAN/DYSTOPIAN LITERATURE

Prerequisite: ENGL-1213 and ENGL-2213. This English elective focuses on exploring the shifting definition of "utopia" in philosophy, literature, and politics through the reading of major utopian texts/film. This course is offered as needed.

3123 WORLD LITERATURE I: CLASSICAL TO RENAISSANCE

Prerequisite: ENGL-1213 with a grade of "C" or better. Non-majors by permission only. A study of representative world masterpieces through the Sixteenth Century. This course is normally offered in the fall semester of even numbered years.

3133 WORLD LITERATURE II: RENAISSANCE TO MODERN

Prerequisite: ENGL-1213 and ENGL-2213 with a grade of C or better. Non-majors by permission only. A study of representative world masterpieces from the past four centuries. This course is normally offered in the spring semester of odd numbered years.

3153 ENGLISH LITERATURE SURVEY I

Prerequisite: ENGL-1213 and ENGL-2213 with a grade of C or better. Non-majors by permission only. A study of the major works of English literature from the Danish invasion to 1700. This course is normally offered in the fall semester of odd numbered years.

3253 ENGLISH LITERATURE SURVEY II

Prerequisite: ENGL-1213 and ENGL-2213 with a grade of C or better. Non-majors by permission only. A study of the major works of English literature from 1700 to the present. This course is normally offered in the spring semester of even numbered years.

3313 INTRODUCTION TO LINGUISTICS

Prerequisite: ENGL-1213 with a grade of "C" or better. The basic concepts, scope and methodology of the science of language in its descriptive and historical aspects as well as an introduction to the phonemic, morphemic and syntactical features of language. The course also considers the applications of modern linguistics. This course is normally offered in the fall semester of even numbered years.

3413 STUDIES IN WORLD LITERATURE

Prerequisite: ENGL-1213 and ENGL-2213 with a grade of C or better. Non-majors by permission only. A study of one major genre (fiction, poetry, drama, or film) as it appears in major world texts. The course may be repeated as the content changes. This course is normally offered as needed.

3443 BIBLE AS LITERATURE

In this course students will examine the Bible not only as God's inspired word, but also as a literary text. Critiques and analyses from Biblical scholars will be explored. In addition, students will write about their personal interpretations of the Bible. Same as BIBL-3443. This course is offered as needed.

3493 TECHNICAL WRITING

Prerequisite: ENGL-1213 with a grade of "C" or better. An introduction to scientific, business and technical writing, including experience in conducting research and writing major types of reports as well as letters and memos. The course also includes basic information regarding graphics and design. This course is normally offered in the fall semester.

3523 CREATIVE WRITING I

Prerequisite: ENGL-1213 with a grade of "C" or better. A study of the theory of creative writing and practice in a workshop setting in the composition of fiction and drama. The course serves as an introduction to the sources of creative writing, the characteristics of the major genres and the process of revising and editing. This course is normally offered in the spring semester of odd numbered years.

3533 CREATIVE WRITING II

Prerequisites: ENGL-1213 with a grade of "C" or better. An advanced study and practice of the craft of one major genre (poetry). The course is a workshop in practicing the particular features of the genre under study and a study of the process of revising, editing, and marketing manuscripts. This course is normally offered as needed.

3673 AMERICAN LITERATURE SURVEY I, BEFORE 1865

Prerequisite: ENGL-1213 and ENGL-2213 with a grade of C or better. Non-majors by permission only. A study of American writing from the beginnings to the Civil War. This course is normally offered in the fall semester of even numbered years.

3713 STRUCTURES OF THE ENGLISH LANGUAGE

Prerequisite: ENGL-1213 with a grade of "C" or better. An advanced analysis of English grammar, emphasizing constituent structure, instruction to non-native English speakers, and application to writing. This course is normally offered in the spring semester of odd numbered years.

3723 METHODS OF TEFL

Prerequisite: ENGL-1213. An introduction to language teaching methodology. TEFL Methods students study and practice a variety of language teaching techniques while exploring second language acquisition principles underlying classroom methodology. Students research a topic for an annotated bibliography, compile resources in a materials file, and participate in a mini-teaching practicum. This course is normally offered during the spring semester. It fulfills three credit hours toward TEFL Certification.

3773 AMERICAN LITERATURE SURVEY II, 1865-PRESENT

Prerequisite: ENGL-1213 and ENGL-2223 with a grade of C or better. Non-majors by permission only. A study of the major American authors and literary movements from the postbellum era to the twenty-first century. This course is normally offered in the spring semester of even numbered years.

3813 ADVANCED WRITING

Prerequisite: ENGL-1213 with a grade of "C" or better. An expansion of writing skills in expository and argumentative modes for both formal and informal contexts. Entails the analysis of rhetorical features of writing such as genre differences and formal argument methods (Classical, Toulmin, Rogerian), the linguistic analysis of style and imitative practices, and the advanced application of the writing process to student composition. This course is normally offered in the spring semester of even numbered years.

4103 MODERN DRAMA

Prerequisite: ENGL-1213 with a grade of "C" or better. A study of major works, themes, and movements in modern drama. This course is offered as needed.

4113 STUDIES IN CHAUCER

Prerequisite: ENGL-1213 with a grade of "C" or better. Non-majors by permission only. Studies in Chaucer surveys the work of the author in the original Middle-English, in particular The Canterbury Tales. Students will develop a knowledge of Middle-English, Chaucer, and the 14th century. This course is normally offered as needed.

4123 THE NOVELS OF JANE AUSTEN

Prerequisite: ENGL-1213. This English elective surveys Austen's six complete novels. It is a seminar style course that places Austen in her socio-cultural context and in the context of the Rise of the Novel. This course is offered as needed.

4133 STUDIES IN TOLKIEN

Prerequisites: ENGL-1213 and ENGL-2213. This English elective surveys Tolkien's major literary works. It is a seminar style course that places Tolkien in his socio-cultural, theological, and popular context. This course is offered as needed.

4143 FILM AS LITERATURE

Prerequisite: ENGL-1213 and ENGL-2213. This English elective introduces terminology and conventions of film, analyzes classic film, and focuses on film genres in order to position film as a form of literature. It is a seminar style course and requires students to view films out of class. This course is offered as needed.

4213 STUDIES IN SHAKESPEARE

Prerequisite: ENGL-1213 with a grade of "C" or better. Non-majors by permission only. A thorough analysis of at least 11 of Shakespeare's plays and the major criticism. This course is normally offered in the spring semester in odd numbered years.

4413 STUDIES IN ENGLISH LITERATURE

Prerequisites: ENGL-1213 and ENGL-2213 with a grade of C or better. Non-majors by permission only. A detailed study of a specific genre, movement, or writer in English literature. This course may be repeated as the content is changed. This course is normally offered in the spring semester.

4513 STUDIES IN AMERICAN LITERATURE

Prerequisites: ENGL-1213 and ENGL-2213 with a grade of C or better. Non-majors by permission only. A detailed study of a specific genre, movement, or writer in American literature. This course may be repeated as the content is changed. This course is normally offered as needed.

4633 INTERCULTURAL COMMUNICATION I

Prerequisite: ENGL-1213 with a grade of "C" or better. A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. ENGL-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. Same as COMM-4633, MISS-4633 and SOCI-4633. This course is normally offered in the fall semester of odd numbered years.

4643 INTERCULTURAL COMMUNICATION II

Prerequisite: ENGL-1213 with a grade of "C" or better. Typically taught while a student is living in a foreign culture. Same as MISS-4643 and SOCI-4643. This course is normally offered as needed.

4733 SENIOR CAPSTONE

Prerequisite: Senior standing and departmental approval. A capstone course giving Language and Literature majors the opportunity to synthesize previous work, to interact with the faculty at an advanced level, and to practice research skills in preparation for graduate school or for entry into their profession. This course is normally offered every fall semester.

4813 SPECIAL STUDIES

Prerequisite: ENGL-1213 with a grade of "C" or better. Non-majors by permission only. A detailed study of a specific genre, movement, or writer in literature, of genre writing or rhetoric; of culture, language, or methodology. This course may be repeated as the content is changed. This course is normally offered as needed.

4851 PRACTICUM IN WRITING/RESEARCH/EDITING

Prerequisite: ENGL-1213. Practical experience working with a publisher of books or periodicals (e.g., work with a textbook publisher, Soundings or Christian Chronicle.) This course is normally offered as needed.

4863 TEFL STUDENT TEACHING PRACTICUM

Prerequisites: ENGL-3723. A student teaching experience with non-native English speakers (NNES). Students complete 30 class hours of teaching NNES. Additionally, students complete a resume and cover letter in reference to a job search for an English language teaching position. This course fulfills three credit hours toward TEFL Certification. This course is normally offered as needed.

4873 WRITING INTERNSHIP

Prerequisite: Junior or senior status. Non-majors by permission only. Offered on demand. An independent study focused on developing professional writing abilities through the student's solicitation of writing works at a nonprofit or business. Students must spend a minimum of 30 hours during the semester on exclusively written work in addition to other writing skill development exercises and logs required by the instructor of record. This course is offered as needed.

EXERCISE SCIENCE (EXSC)

1013 INTRODUCTION TO EXERCISE SCIENCE

An overview of the field of exercise science. Exercise physiology, testing, prescription, sports nutrition, and biomechanics are all introduced in this course. A large focus of the course is the overall evidence regarding the long-term health benefits of physical activity. Finally, careers in exercise science are discussed. Same as BIOL-1103. This course is normally offered in the spring semester.

2123 PUBLIC HEALTH NUTRITION AND MISSIONS

Prerequisite: BIOL 2033. Sophomore standing A discussion and experience of public health nutrition issues both domestically and internationally. Students learn useful skills such as assessment of populations, nutrition education program planning, implementation and evaluation. Other areas of emphasis are current data regarding nutrition and health from populations of people worldwide as well as basic knowledge of principles of epidemiological research. This class requires service or field work experience, either locally or internationally. This course is offered in the spring semester of even numbered years.

3013 LIFESPAN NUTRITION

Prerequisite: BIOL-2033. A survey of nutritional needs and how they change throughout the different stages of life. As many nutrition courses by default focus on individuals aged 18-55, this course spends necessary time on pregnancy, maternal nutrition, young children, and older adults. This course is normally offered in the fall semester of even numbered years.

3023 BIOMECHANICS

Prerequisite: PHYS-1114. Attention is given to the mechanical and anatomical aspects of human movement across modalities of exercise and physical activity. The class applies kinematic and kinetic principles to the analysis of human movement. A particular focus of this class would be injury prevention through utilization of proper biomechanics. Same as BIOL-3023. This course is normally offered in the fall semester.

3033 EXERCISE TESTING AND PRESCRIPTION

Prerequisite: EXSC-1013 A concentration on the principles of exercise testing and prescription in healthy individuals, athletes, at-risk individuals, and patients with cardiovascular and metabolic diseases. Specific practical outcomes that are given attention are tests that are commonly used in clinical and elite athletic environments. This course is normally offered in the spring semester.

3043 STRENGTH AND CONDITIONING

Prerequisite: EXSC-1013. To understand proper analysis and performance of basic power and Olympic style lifts. To develop sound periodization-based strength and conditioning programs to include: resistance training parameters, plyometric training parameters, aerobic training parameters, and anaerobic, agility and sprint-based training parameters. This course is normally offered in the spring semester.

3123 HEALTH ISSUES

Prerequisite: BIOL-2033, EXSC-1013, Junior standing This course addresses current diseases with high mortality rates (e.g. vascular disease, cancer, stroke, type 2 diabetes), in addition to other chronic issues such as Rheumatoid arthritis and Parkinson's disease. The course also dedicates substantial time to examining evidence with regard to exercise's effect on or relationship with these conditions. The primary goal of this course is to give students a working knowledge of the causes and mechanisms of prevalent health conditions, and how exercise relates to these issues. This course is normally offered in the fall semester of odd numbered years.

3231 EXERCISE PHYSIOLOGY LAB

Prerequisite: BIOL-2244, BIOL-3224. Concurrent enrollment in EXSC-3233. This course provides students with the opportunity to use and experience various test and measurement equipment relevant to the exercise physiology field. Specifically, the equipment used will be to measure acute exercise responses and performance values pertaining to the following fitness

components: Cardiovascular/cardiorespiratory, muscular strength, muscular endurance, flexibility, and body composition. Concurrent enrollment in EXSC-3233 is required. Same as BIOL-3231. This class is normally offered in the spring semester.

3233 EXERCISE PHYSIOLOGY

Prerequisite: BIOL-2244, BIOL-3224. An in-depth examination of human physiology, at rest and during exercise. Areas of specific focus are the cardiovascular, cardiorespiratory, and muscular systems and how each manages the physiologic stress of exercise at various explore the related crises that develop around these developmental transition periods. This course is normally offered in the spring semester.

4133 NUTRITION AND EXERCISE

Prerequisite: BIOL-2033 and BIOL-3224. An in-depth study of the relationship between nutrition and exercise. There are two primary areas of emphasis in this course: 1) the processes of nutrient metabolism and how they are modified during exercise in humans and 2) nutrition strategies for optimizing exercise and athletic performance. This course is normally offered in the fall semester.

4443 CAPSTONE IN EXERCISE SCIENCE

Prerequisite: Advisor permission. The purpose of this senior-level course is for students to integrate the knowledge gained throughout their studies in NES in a practical and professionally-relevant way. Students spend a large part of the semester on a "culminating experience", a project of their choosing that synthesizes material learned in their undergraduate experience and applies it to a real problem or question. This course is normally offered in the spring semester

FAMILY SCIENCE (FMST)

1113 INTRODUCTION TO FAMILY SCIENCE

A comprehensive introduction to the subjects which comprise the study of human development and family betterment. It covers, in very general terms, the spectrum from conception to death and takes a general look at professional possibilities within this broad field. The research base of the discipline is introduced as the student learns the difference between research-based and expository publication. Common statistical terms are studied so that the student can read research journals with elementary understanding. This course is normally offered every fall semester.

1123 INTRODUCTION TO CHILD LIFE

Prerequisite: FMST-1113. This course is designed to allow students interested in Child Life to initial fundamental skills needed in helping children and families cope with the stress of a health care experience. Child Life Specialists are members of the healthcare team. As such, they must practice maintaining, enhancing, and maximizing normal growth and development through play, education, advocacy, and therapeutic interventions. Students will gain knowledge of the theoretical foundations of Child Life as well as assessment of developmental and psychosocial needs of children and their families in healthcare settings and the role play has in successful coping for children who may be experiencing grief and loss. Professional components of the Child Life Specialist including the development of therapeutic relationships, documentation of clients' plans of care, and evaluation of their role within an interdisciplinary client care team will be explored. This course fulfills 1 of the Association of Child Life Professionals academic requirements.

2103 THERAPEUTIC PLAY

Prerequisite: FMST-1113 or PSYC-2523. This course focuses on the therapeutic aspects and learning objectives of play in infants, children, and adolescents (birth to 18), examining classical and contemporary theories of play; play as an essential element for children's growth, development, and learning; and influence of play environments on children's play. This course will include interactive aspects of observing, assessing, and using play to evaluate children's learning processes, as play is the primary vehicle and indicator of physical, intellectual, social, and emotional development of children. This course fulfills 1 of the Association of Child Life Professionals academic requirements.

2323 DEATH, DYING AND BEREAVEMENT

Prerequisite: FMST-1113 or PSYC-2523. This course is designed to present various ways in which humans experience death, dying and bereavement. Conceptual frameworks and theories about death, dying and bereavement will be explored. Personal biases, assumptions, attitudes, and reactions to death, dying and bereavement will be examined. Further, competencies in sensitivity, awareness, and skills related to personal coping with death and grief, supporting others in their dealings with death and grief, and finding personal growth and meaning through encounters with death and grief will be increased. This course fulfills 1 of the Association of Child Life Professionals academic requirements. Same as PSYC-2323.

2423 PARENT-CHILD RELATIONS

Prerequisite: FMST-1113. Opportunities, responsibilities, and problems faced by parents in guiding the development of children, with emphasis on recent research in the area of parent-child relationships. Same as SOCI-2423. This course is normally offered in the spring semester.

3003 FAMILY COMMUNICATION AND LEADERSHIP

This course examines theories and research pertaining to communication in the family context. Special emphasis is placed on communication and the development of leadership within the family. Same as COMM-3003. This course is normally offered in the spring semester of odd numbered years.

3513 CHILD WELFARE

Prerequisite: FMST-1113. A study of child welfare services. Particular attention is given to the areas of foster care, adoption, institutional care, care of unwed mothers, and protective services. This course is normally offered in the spring semester.

3523 HUMAN SEXUALITY

An introductory course including considerations of human sexual development. The course is intended to present a decision-making model with which individuals can make decisions and accept responsibility for their actions. This course is normally offered in the fall semester.

3613 ADOLESCENCE AND EARLY ADULTHOOD

Prerequisite: PSYC-1113. This course covers the developmental process of adolescence and early adulthood. The course focuses on biological, cognitive, and socio-emotional issues as they pertain to the ongoing changes in this time of the life cycle. Attention will be given to issues of gender, culture, family relationships, peer relationships, sexuality, and education. Special attention will also be given to issues that young adults face as they venture into collegiate life, career exploration, and new family roles. Same as PSYC-3613. This course is normally offered in the fall semester of odd numbered years.

3723 GERONTOLOGY

Prerequisite: FMST-1113. A study to include physical and health factors in aging; psychological aspects of aging; marriage, family, and community relationships of older persons; economic and vocational factors in aging; perspectives on death, dying, and grief; aging and institutional care; aging and the law; and the future of social intervention, both public and private. Same as PSYC3723 and SOCI-3723. This course is normally offered in the spring semester of even numbered years.

3913 FAMILY DEVELOPMENT

Prerequisite: FMST-1113. An introduction to the family development life cycle. The course will focus on the stages that marriages and families progress through and the associated tasks that need to be addressed and successfully negotiated. Attention will be given to dating, marriage, having children, children going to school, adolescence, empty nest, and issues of caretaking, grandparenting and aging. The course will also explore the related crises that develop around those developmental transition periods. This course is normally offered in the fall semester of odd numbered years.

3933 CYBERNETICS AND SYSTEMS THEORY

Prerequisite: FMST-1113. An introduction to the major underlying theoretical foundations of family therapy. The course will explore the historical development of systems theory and cybernetics from its origins in the 1940s in the thinking of mathematicians, physicists, biologists, and engineers to the pioneering work of Bateson and his colleagues in the late '50s and their application of cybernetics to the family. The course will also introduce the work of Murray Bowen. The basic concepts of systems theory will be discussed and contrasted with the more common Western, analytical approach which has dominated thinking in psychology since the time of Freud. Same as PSYC-3933. This course is normally offered in the fall semester of odd numbered years.

4003 FAMILY RESOURCE MANAGEMENT

Prerequisite: FMST-1113. This special studies course will examine individual and family management of resources over the lifetime. Family resources that will be considered include financial, workplace, social, community and interpersonal in nature. This course will include an emphasis on decision making processes within family systems especially families that are dealing with issues impacting resource management. This course is normally offered in the spring semester of even numbered years.

4043 FAMILY POLICY

This course covers major areas of social policy pertaining to families. Key legislation affecting families is highlighted. Emphasis is placed on providing opportunities for students to think critically and engage in discussions about trends and controversies in family policy. This course is normally offered in the spring semester of even numbered years. Same as CRMJ-4043.

4123 DIVORCE AND STEPFAMILY RELATIONSHIPS

Prerequisite: FMST-1113. An overview of the issues pertaining to divorce and stepfamily relationships. We will address the consequences of divorce on children and adults as well as ways in which adults can create a more healthy post-divorce environment for their children. We will consider the major issues surrounding stepfamilies in today's society and how healthy relationships can be established in these environments. This course is normally offered in the fall semester.

4323 INTRODUCTION TO MARITAL AND FAMILY THERAPY

Prerequisite: FMST-1113. An introduction to the field of marital and family therapy. It will present the history of systems therapy, including the importance of systems theory to the continuing development of the discipline. Special emphasis will be placed on the current status of marital and family therapy including the importance of constructivist theories. The course will also present the major theories of marital and family therapy that have defined the field for the last 40 years. This will be a systemic, experiential, discussion-based class that will require active participation from each student. Same as PSYC-4323. This course is normally offered in the spring semester of even numbered years.

4333 FAMILY RESILIENCE

Prerequisite: FMST-1113. Examination of selected theoretical approaches; areas of family risk; protective factors; individual and family qualities relating to resilience; prevention and intervention strategies ground in resilience perspectives. This course is based on the premise that Family Science majors can work more effectively with families by (a) defining and understanding the processes of family risk and resilience; (b) understanding and applying

different theoretical models to specific risk and resilience issues; (c) understanding and applying existing scholarship on family risk and resilience and; (d) evaluating/generating possible preventions and interventions for families grounded in resilience perspectives. This course is normally offered in the spring of odd numbered years.

4553 FAMILY LIFE EDUCATION

Prerequisite: FMST-1113. This course is designed to provide students with an applied learning experience in the design, development, and implementation of programs geared toward helping children and families. Areas of emphasis include program planning, theory, evaluation, mass media communication, and principles of teaching/instruction. This course is normally offered in the spring semester.

4653 RESEARCH SEMINAR

Prerequisites: FMST-1113 and PSYC-4623. The capstone course in the Family Science program. Students will learn SPSS – the Statistical Package for the Social Sciences – and complete their own individual research project and paper, including the collection and analysis of data. The final goal will be making a presentation of their findings to the appropriate student convention. Much of the class will consist of individual instruction and laboratory work. Same as PSYC-4653. This course is normally offered in the spring semester.

4713 FAMILY SCIENCE PRACTICUM

Prerequisite: FMST-1113. A practicum that is a self-selected experience from among approved settings within the areas of child development or gerontology. Commercial infant or child care, child abuse facilities, Department of Human Services facilities, retirement or assisted living facilities are possible acceptable settings. A total of 126 clock hours (9 hours per week) during a semester is required. This course is offered as needed.

4733 PROFESSIONAL, ETHICAL, AND LEGAL ISSUES

Prerequisites: FMST-1113 and senior standing. A study of the contemporary ethical considerations, legal standards, and professional issues that influence the work of psychologists, counselors, and other mental health officials. Specific attention will be given to the Ethical Standards of the APA, ACA, and AAMFT, as well as Oklahoma State Law governing the behavior of researchers and psychotherapists. The course will focus on specific ethical dilemmas throughout the class, including – among others – confidentiality, dual relationships, professional relationships, assessment, and research. Same as PSYC-4733. This course is normally offered in the fall semester of odd numbered years.

FINANCE (FINC)

3011 STUDENT INVESTMENT FUND TEAM

Prerequisite: FINC-3313. Practical experience in investment analysis through managing the Oklahoma Christian Student Investment Fund. Students perform investment research, prepare equity analysis, make investment recommendations, participate in buy/sell decisions, and develop reports on fund performance. This course is normally offered in the fall and spring semester.

3313 PRINCIPLES OF FINANCE

Prerequisites: ACCT-2213. A study of the objectives and techniques of the finance function of the firm. Financial ratios, cash budgets, break-even analysis, leverage, quantitative tools, security evaluation, cost of capital, capital budgeting, working capital management, sources of capital for expansion and evaluation of the capital structure are studied. This course is normally offered in the fall and spring semester.

3323 INTERMEDIATE FINANCIAL MANAGEMENT

Prerequisite: FINC-3313, INFO-2013. This course provides a study of the theories and practices related to the financial administration of the firm. The major decision-making areas of corporate financial management will be studied with a focus on firm valuation. Topics include capital budgeting, capital structure, and dividend policy. Financial modeling will be introduced. This course is normally offered in the spring semester.

3413 INTRODUCTION TO PERSONAL FINANCIAL PLANNING

Prerequisites: FINC-3313 This course provides an overview of personal financial planning and an introduction to the necessary knowledge and skills to enter the financial services industry and meet the education eligibility requirements to become a Certified Financial Planner (CFP). This course will cover two main areas of the CFP curriculum: 1) General Financial Planning Principles and 2) Professional Conduct, Ethics, and Regulation. This course is normally offered in the fall semester.

3523 MONEY AND FINANCIAL MARKETS

Prerequisite: ECON-2113. A study of the nature and functions of money, financial markets, and financial institutions. Areas covered include central banks, monetary policy, banking institutions, non-bank financial institutions, the nature and importance of various financial markets, and global issues with international markets and institutions. This course is normally offered in the fall semester.

3613 INVESTMENTS

Prerequisite: FINC-3313. A practical study of securities and securities markets. The development of the models for the valuation of stocks and bonds as well as alternative investments such as options, warrants, convertible securities, futures, mutual funds, and puts and calls. This course is normally offered in the spring semester.

4013 PRINCIPLES OF PERSONAL FINANCIAL PLANNING

Prerequisite: FINC-3413. This course provides students the necessary knowledge and skills to enter the financial services industry and meet the education eligibility requirements to

become a Certified Financial Planner (CFP). This course will cover two main areas of the CFP curriculum: 1) Risk Management and 2) Estate Planning. This course is normally offered in the fall semester.

4513 APPLICATIONS OF PERSONAL FINANCIAL PLANNING

Prerequisite: FINC-4013. This course provides students the necessary knowledge and skills to enter the financial services industry and meet the education eligibility requirements to become a Certified Financial Planner (CFP). This course will cover three main areas of the CFP curriculum: 1) Retirement Planning, 2) Case Study and 3) Behavioral Finance. This course is normally offered in the spring semester.

4991 INTERNSHIP IN FINANCE

Prerequisites: Admission to College of Business Administration Upper Division, completion of FINC-3313 and approval of advisor and dean. Supervised and approved finance business internship with firm or organization; written and oral reports are required along with employer evaluation. (Variable credit, 1-3 semester hours; 30 hours work required for each hour of credit with a maximum of 3 credit hours.) This course is offered as needed.

FINE ARTS (FINE)

2023 HISTORY OF THEATER

This course will expose students to the development of Western theatrical traditions through primary sources, class lectures, and critical dialogue. The course will trace the earliest records of theatrical staging to the rise of 18th century national theaters in Europe. Special emphasis will be placed on technological innovations, dramatic conventions, and the role of politics and ritual in theatrical history. Students will synthesize their coursework in a final creative project. Composition and reading outside of class will be required. Counts as a Great Works in the University's general education requirements.

FRENCH (FRNC)

1113 BASIC FRENCH I

Basic principles and practice of speaking, understanding, reading, and writing French and an introduction to French culture for those with no background in French. This course is normally offered as needed.

1213 BASIC FRENCH II

Prerequisite: FRNC-1113, one year of French in high school or the equivalent with permission of the instructor. This course is normally offered in the spring semester. Continuation of Basic French I, enabling the student to read, write, understand and respond in basic French and to be aware of cultural differences. This course is offered as needed.

GENERAL MINISTRY (GMIN)

1011 LIFE CALLING (TEL ONLY)

This course focuses on students developing an understanding of the concept of life calling and the discovery of one's God-given design as a basis for this calling. Students are led to understand how work and individual leadership is best understood from this life calling perspective. Students will evaluate their foundational values, unique design, and personal mission, as well as examine each component in an in-depth integrated portfolio.

1123 BIBLICAL PEACEMAKING IN THE WORKPLACE

This course provides an overview of Biblical peacemaking in the workplace. Topics included basic principles of conflict and conflict management, forgiveness, peacemaking, and leadership skills for responding to conflict in the workplace. In addition, students will develop theological acumen for speaking about peacemaking in the church and community contexts.

1203 INTRODUCTION TO CHILDREN'S MINISTRY

A study of the history of the child in the Bible and the unique aspects of the profession of Children's Ministry. This course is normally offered in the spring semester.

2003 PERSONAL AND FAMILY FINANCE

This course is designed to help individuals and families learn the basics of managing their finances in a Biblical way. Topics covered in this class include budgeting, investing, insurance, buying your own home, and teaching your children about money. Same as FMST-3453.

2013 INTRODUCTION TO CHRISTIAN MINISTRY

This course introduces students to the practice of Christian ministry. Students explore a variety of professional and parachurch ministries in order to discern their own calling. Topics include the Biblical basis for ministry, leadership and management skills, personal growth, and selfcare.

2033 INTRODUCTION TO CHRISTIAN ETHICS

This course examines Christian morality and ethics rooted in the teaching of Jesus. Other major contemporary ethical systems are also surveyed. Students practice ethical discernment on topics such as sexuality, family, food, environmentalism, consumerism, and wealth.

2133 FAITH AND THE PROBLEM OF SUFFERING

This course provides a Biblical foundation for exploring the issue of human suffering. Topics addressed include the causes of pain & suffering in the world, the role and responsibility in God to suffering in a fallen world, how individuals may respond to pain, suffering, and tragedy in the world. This course is typically offered in the spring semester.

3013 EVIDENCES FOR CHRISTIAN FAITH

A study of the evidence for the existence of God and Christ as God's supreme revelation. Emphasis is given to providing a modern case for the existence of the God of the Bible. Non-textual. This course is normally offered in the fall semester.

3023 CHURCH HISTORY 1517 TO PRESENT

This course continues THEO-3013, covering the period from the 16th century Reformation to the present. Special emphasis is given to the 19th century Restoration Movement in America.

3033 LOVE AND THE HUMAN CONDITION

This course surveys a variety of interpretations of love from ancient Greek philosophy to medieval Christian mysticism to modern evolutionary biology in an effort to construct a unified theory of love from a Biblical perspective.

3043 CHURCH HISTORY TO 1517

This course surveys Christianity from its beginning to the 16th century Reformation. Special emphasis is given to the nature of the early church, later doctrinal controversies, papal development, and outstanding personalities of this period.

3053 CHRISTIANITY AND CULTURE

This course helps students to see that it was God's plan to bless the nations of the world through the culture of the church that is universally adaptable, but that universal culture needs to be distinguished from particular expressions of what it means to be God's church within any specific global context, including the student's own. This course is normally offered on a study abroad trip.

3063 EVANGELISM & DISCIPLESHIP

This course will explore the theology and practice of Christian evangelism and discipleship. Emphasis will be given to the narrative approach to evangelism and the practices of discipleship that form people into God's narrative for the world in Jesus Christ. This course is normally offered in the spring semester.

3123 MISSION PREPARATION

This course prepares students for short- and long-term cross-cultural missions. Topics include Biblical theology of missions, cultural intelligence, missional theory, the daily work of a missionary, emotional and spiritual preparation, self-care, and collaboration with supporting churches.

3133 WOMEN IN MISSIONS

A study of the unique opportunities, challenges, and difficulties which single and married women face on the mission field. Non-textual. This course is normally offered in the fall semester.

3143 THE SCIENTIFIC CHRISTIAN

This course explores the relationship between faith and science. Topics include the history of science, methodological materialism, cosmology, the creation/evolution debate, and the theological implications of quantum theory.

3153 GOSPEL, CHURCH AND CULTURE

A study of the dynamics of the intersection between gospel, church, and culture. Emphasis will be given to how the gospel engages cultures through the life and witness of the church. Same as BIBL-3153. This course is normally offered in the fall semester of even numbered years.

3163 URBAN MINISTRY AND COMMUNITY DEVELOPMENT

This course examines diverse aspects of ministry within urban contexts both in the United States and abroad. Topics include the Biblical theology of the city, social analysis, principles of urban evangelism and missions, urban church planting, and ministry in contexts of ethnic, racial, and socioeconomic diversity.

3253 TEACHING THE BIBLE

This course prepares students to teach scripture in the Church. Attention will be given to class design, lesson planning, communication, and facilitating meaningful discussion.

3313 CROSS-CULTURAL MINISTRY

A course that examines spiritual, theological, and missiological issues involved in ministering to individuals and groups in intercultural contexts, both foreign and domestic. Same as BIBL-3333. This course is normally offered in the spring semester of even numbered years.

3413 CHRISTIAN FAMILY

This course examines the practice of marriage and family life from a Biblical perspective. Special attention is given to communication, financial management, conflict resolution, and sexuality.

3433 COUNSELING AND PASTORAL CARE

Prerequisite: PSYC-1113. This course examines the theoretical formulation and Biblical Principles behind ministerial counseling. Consideration will be given to the practical skills necessary for different types of pastoral care.

3513 WORLD RELIGIONS

Prerequisite: Junior standing A comparative study of the beliefs and practices, as well as the historical and sociological impact, of several of the world's principal religious traditions. These include indigenous traditions, Judaism, Islam, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Fulfills the core curriculum non-Western civilization requirement. Same as SOCI-3513. This course is normally offered every spring semester.

3533 CHRISTIANITY AND MENTAL HEALTH

This course provides an overview for mental health issues encountered in a ministry setting. Topics included basic principles of risk assessment, development of empathetic, relational, and advocacy skills for responding to various mental health challenges. In addition, students will develop theological acumen for speaking about mental health issues in contexts of the church and community. The course is taught during the fall semester.

3613 CULTURAL ANTHROPOLOGY

A course that is designed with the intent of enhancing students' cultural intelligence, specifically in terms of understanding cultural diversity and functioning more effectively in culturally diverse contexts. A significant component of the course is devoted to the study of the anthropology of religion. This course fulfills the non-Western civilization requirement in the Core Curriculum. Same as SOCI-3613. This course is normally offered every fall semester.

3913 HOMILETICS I

Prerequisite: COMM-1213 or permission of the instructor. A study of the theory, practice, and evaluation of the preparation and delivery of sermons and religious speeches.

4411 RECREATION WITH EXCEPTIONAL CHILDREN

This class allows students to work with physically and mentally disabled students. All work is done within a lab setting involving physical education and recreation skills. This course is an activity course. Same as EDUC-4411.

4113 THE LOCAL CHURCH AND MISSIONS

A study of the responsibility of the local church in world evangelism with suggestions concerning how to lead the local church to accept and carry out its missionary work. Non-Textual. Same as BIBL-4113. This course is normally offered in the spring semester of even numbered years.

4133 SYSTEMATIC THEOLOGY

A systematic study of the major topics of theology: anthropology, ethics, eschatology, ecclesiology, Christology, soteriology, and theology proper (Doctrine of God). Special attention will be paid to doctrinal thinking in the Restoration Movement and to contemporary issues in churches of Christ. Majors only, except by special permission of the instructor. Non-textual. This course is normally offered in the spring semester of odd numbered years.

4633 INTERCULTURAL COMMUNICATION I

Prerequisite: ENGL-1213. A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. ENGL-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. Same as COMM-4633, ENGL-4633, and SOCI-4633. Non-textual.

4713 RESTORATION MOVEMENT

A study of the Scottish origins and American development of the Restoration Movement to the present day. Significant personalities and issues as well as the history and spread of the movement are studied. Same as HIST-3193. Non-textual. This course is normally offered in the fall semester of odd numbered years.

4743 SOCIAL ENTREPRENEURSHIP

A study and application of the international consulting process using social-entrepreneurial tools to address problems in developing nations. Topics addressed include: poverty, "when helping hurts", microfinance, access to capital, problems with aid, social entrepreneurship, fair trade, performance analysis, conscious capitalism, and service centered missions. Each student will work individually and, in a team, to address a specific, real-world problem or change effort currently underway in a variety of international settings. Same as COMM-4743, and MGMT-4743. This course is normally offered in the spring semester.

4753 SEMINAR IN CHRISTIAN MINISTRY

Prerequisite: Senior Standing. A seminar in such matters as the relationship between ministers and elders, personal and practical problems a minister may face, applying for a job, planning the work of ministries, use of the minister's time, and church leadership. Non-textual. This course is normally offered in the spring semester.

4763 HOMILETICS II: ADVANCED HOMILETICS

Prerequisite: COMM-3913 or GMIN-3913. This course is a study of the writing and presentation of sermons, with an emphasis on homiletic form and effective public communication. The course also emphasizes analysis of sermons and preparation of a major sermon to be delivered before the Bible faculty. This course is normally offered every other spring in odd numbered years. Same as COMM-4773. Non-textual.

4803 SPECIAL STUDIES

Content varies. Course may be repeated. This course is offered as needed.

4903 MINISTRY PRACTICUM

On-site practical service in a local congregation by invitation and under the oversight of the elders and in conjunction with the local minister(s) and a faculty supervisor. The course includes readings, a journal, and a thorough evaluation. Non-textual. This course is normally offered every semester.

4913 MISSIONS PRACTICUM

On-site supervised ministry experience in a mission's situation, either foreign or domestic, by invitation and with a faculty supervisor. This course includes readings, a journal, and a

GENERAL SCIENCE (GNSC)

1711 FRESHMAN SCIENCE SEMINAR

Prerequisite: Must be a natural science major. A seminar course for all freshman natural science majors that introduces them to careers in science and teaches them about the academic catalog and the latest scientific literature. Students are required to design their own personalized four-year science degree plan that includes pre-requisite courses they need based on their career goals. 2 hours per week. This course is normally offered in the fall semester.

2133 GENERAL PHYSICAL SCIENCE

A survey course including basic physics, chemistry, astronomy, and the philosophy of science. Hands-on laboratory exercises are integrated into the course. 4 hours per week. This course is normally offered every semester.

2313 EARTH SCIENCE

An introduction to the study of the Earth, emphasizing processes that shape and change the surface. This course studies the lithosphere, hydrosphere, and atmosphere, including effects of pollution and remediation efforts. Hands-on laboratory exercises are integrated into the course. 4 hours per week. This course is normally offered every semester.

2323 ASTRONOMY I

This course explores the fundamental concepts of astronomy, including historical perspectives as well as current interpretation of celestial phenomena. Includes comparison of other planets with the Earth, and examines stars, stellar life cycles, galaxies, and cosmology. Hands-on laboratory exercises are integrated into the course. 4 hours per week. This course is normally offered every semester and summer.

2711 SOPHOMORE SCIENCE SEMINAR

Prerequisite: Must be a natural science major and GNSC-1711. Sophomore standing required. A seminar course that instructs students on how to critically read, analyze, and interpret data from the latest scientific research papers in a small group/journal club-style format. Students will design a degree and career plan portfolio to be presented to a panel of science faculty during an individual assessment review. 2 hours per week. This course is normally offered in the spring semester.

3711 JUNIOR SCIENCE SEMINAR

Prerequisite: Must be a natural science major and GNSC-2711. A seminar emphasizing proper understanding of scientific literature and the ability to communicate that knowledge to both an audience of scientific professionals and a lay audience through a variety of presentation styles. 2 hours per week. This course is normally offered in the fall semester.

4712 SENIOR SCIENCE SEMINAR

Prerequisite: Must be a natural science major and GNSC-3711. A seminar course requiring students to do extensive scientific research on one recently published scientific paper. Students will write a senior paper over their research and complete an oral presentation of their work to science majors. Seniors will also read and analyze papers presented by other seniors and write critical analyses of assigned figures. 2 hours per week. This course is normally offered every semester.

4721 SCIENCE MODELING AND STRATEGIES

Prerequisites: Junior or Senior level, science education major the course is designed to fulfill NSTA requirements for secondary science education majors. During this course, each student will complete a science portfolio based on competency-based artifacts as proof-of-concept mastery. This portfolio consists of five different modules and sixteen assignments, each addressing a specific NSTA standard. Student teaching may not be started until the student has successfully completed this course. This course is normally offered in the fall semester.

GEOGRAPHY (GEOG)

2113 ELEMENTS OF HUMAN GEOGRAPHY

A study of the relationship between humankind and the environment and the effect of that relationship on political, cultural, economic, and religious institutions. This course is normally offered in the fall semester in even numbered years.

2213 WORLD REGIONAL GEOGRAPHY

An interpretive study of the political map of the world and some of its recent changes. Attention is focused on the role of location, physical environment, population, ethnic groups, natural resources, and technological change in the evolution of nation-states and dependent territories. This course is normally offered in the fall semester of odd numbered years.

GERMAN (GERM)

1113 BASIC GERMAN I

Basic principles and practice of speaking, understanding, reading, and writing German and an introduction to German culture for those with no background in German. This course is designed for students participating in the European Studies program. This course is offered as needed.

1213 BASIC GERMAN II

Prerequisite: GERM-1113, one year of German in high school or the equivalent with permission of the instructor. Continuation of Basic German I, enabling the student to read, write, understand, and respond in basic German and to be aware of cultural differences. This course is offered as needed.

GREEK (GREK)

1113 ELEMENTARY GREEK I

An introductory course in the elements of Koine Greek. Particular attention is given to learning vocabulary and to learning to recognize grammatical forms. This course is normally offered in the fall semester.

1213 ELEMENTARY GREEK II

Prerequisite: GREK-1113. A continuation of GREK-1113 with selected readings from the New Testament. This course is normally offered in the spring semester.

2113 INTERMEDIATE GREEK I

Prerequisite: GREK-1213. Designed to give the student who has completed courses in elementary Greek essential linguistics knowledge

and skill for exegetical work in the Greek New Testament. This course is normally offered in the fall semester.

2213 INTERMEDIATE GREEK II

Prerequisite: GREK-2113. A continuation of GREK-2113 with more detailed and inductive study of New Testament Greek. This course is normally offered in the spring semester.

3113 ADVANCED GREEK I

Prerequisite: GREK-2213. Readings from various New Testament documents with concentration on syntactic relations between words, word groups, and clauses. This course is normally offered in the fall semester, as needed.

3213 ADVANCED GREEK II

Prerequisite: GREK-3113. Readings from various New Testament documents, a formal exegesis, and special word studies. This course is normally offered in the spring semester as needed.

HEBREW (HBRW)

1113 ELEMENTARY HEBREW I

An introductory course in the principles of biblical Hebrew with special emphasis on verbal forms. This course is normally offered in the fall semester.

1213 ELEMENTARY HEBREW II

Prerequisite: HBRW-1113. A continuation of HBRW-1113. This course will include readings in Hebrew narratives and an introduction to textual criticism and Hebrew exegesis. This course is normally offered in the spring semester.

2113 INTERMEDIATE HEBREW I

Prerequisite: HBRW-1213. An intermediate course in the principles of Biblical Hebrew with special emphasis on reading and dating of narrative texts. This course is normally offered in the fall semester.

2213 INTERMEDIATE HEBREW II

Prerequisite: HBRW-1213. An intermediate course in the principles of Biblical Hebrew with a focus on Biblical Hebrew poetry. This course is normally offered in the spring semester.

3113 ADVANCED HEBREW I

Prerequisite: HBRW-2213. An advanced course in the principles of Biblical Hebrew that includes an introduction to Biblical Aramaic. This course is normally offered in the fall semester as needed.

3213 ADVANCED HEBREW II

Prerequisite: HBRW-2213. An advanced course in the principles of Biblical Hebrew that introduces the student to the reading of unpointed Hebrew texts spanning from the iron age to the rabbinic period. This course is normally offered in the spring semester as needed.

HISTORY (HIST)

1003 INTRODUCTION TO AFRICAN AMERICAN STUDIES AND THE PHILOSOPHY OF RACE

This course introduces students to the field of African American Studies through an examination of the complex experiences, both past and present, of Americans of African descent. Students will be taught from a multidisciplinary perspective. The course focuses closely on major debates that have animated the field of African American Studies, addressing a wide range of issues from the slave trade to the present. The course will reveal the complicated ways we come to know and live race in the United States through a study of the African American experience. We will also examine the impact of institutional racism and white privilege on African Americans.

2111 EXPLORING AMERICA

Prerequisites: completion of HIST-1223 or HIST-2213 and permission of instructor. This history travel course will take students to various historical sites, museums, monuments, and living history exhibits, enabling them to see where history was made and how it has been preserved and presented. Regular class meetings and assignments during the spring semester prepare students to maximize their learning on the 7-10 days travel experience. Destinations and trip themes change each year so the course may be repeated for credit. This course is normally offered in the spring semester. The travel component starts at the end of the semester.

2123 INTRODUCTION TO HISTORICAL RESEARCH

An introduction to historical research, analysis and writing, emphasizing the complex nature and philosophy of history, the history of historical writing, and the role of Christian historians. This course is normally in the spring semester of even numbered years.

2213 HISTORY OF THE U.S. TO 1877

A survey of America's political, social, religious, intellectual, diplomatic, and economic history from its founding through Reconstruction. This course is normally offered every semester.

2223 HISTORY OF THE U.S. SINCE 1877

A survey of America's political, social, religious, intellectual, diplomatic, and economic history from the end of Reconstruction to the present. This course is offered every semester.

2313 OKLAHOMA HISTORY

A study of the exploration of Oklahoma, coming of civilized tribes, opening of Indian lands to settlement by non-Indians, statehood, constitution and government, and economic and political developments. This course is offered as needed.

2613 THE MODERN MIDDLE EAST

A historical and cultural study of the modern Middle East, focusing on Islamic culture, nationalism, secularization, and the challenge of Westernization. Key topics include the rise and fall of the Ottoman Empire, the establishment of Saudi Arabia, the Israeli- Palestinian conflict, the Iranian Revolution, the Persian Gulf Wars, and the rise of political terrorism. This course is normally offered as needed.

2723 INTRODUCTION TO PUBLIC HISTORY

Introduction to theories regarding various fields of public history, the historical traditions of such fields, and the relationship between public history and the history profession. The course will introduce students to various public history fields including museum studies, archives, historic preservation, heritage tourism, media, oral history, and cultural resource management. Field trips to area museums, archival depositories, and research centers will be included. This course is normally offered in the spring semester of odd numbered years.

2813 DATA ANALYSIS

Prerequisite: POLS-2113 or POLS-2213. Survey of methods and approaches to the study of politics and their underlying assumptions as they apply to the major concepts of the discipline. An introduction to political data sources, their strengths and weaknesses, and uses in research. The course is normally offered in the fall semester of even numbered years. Same as POLS-2513.

2823 WORLD CIVILIZATION TO 1500

This course is a survey of the political, economic, social, cultural, and religious developments of world civilizations from their origins to about 1500. Students will examine the Ancient Near East, the Far East, and the Middle East, as well as Africa, India, and Europe. Though most of the events occurred in the past, the ramifications can be felt in the present. This course will help students cultivate useful life skills such as reasoning, problem solving, time management, and effective communication. This class is normally offered in the fall semester.

2833 WORLD CIVILIZATION SINCE 1500

This course is a survey of the political, economic, social, cultural, and religious developments of world civilizations from about 1500 to present. Students will examine the Ancient Near East, the Far East, and the Middle East, as well as Africa, India, and Europe. Though most of the events occurred in the past, the ramifications can be felt in the present. This course will help students cultivate useful life skills such as reasoning, problem solving, time management, and effective communication. This class is normally offered in the spring semester.

3213 AMERICAN POLITICAL THOUGHT

Prerequisite: POLS-2113 or POLS-2213. A study of American political ideas, political thinkers, and the classic texts of American political thought from colonial times to the present in their historical context. Special attention will be given to the influence of Calvinism, the Enlightenment, Romanticism, Social Darwinism, pragmatism, Anti- Communism, postmodernism, and contemporary liberalism and conservatism. Same as POLS-3213. This course is offered as needed.

3233 WOMEN'S HISTORY

An examination of women's lives from the ancient world to the present with particular emphasis on European history. This course includes both famous and ordinary women. It also emphasizes changes, positive and negative, that have occurred and how those changes impacted women over time.

3243 INTRODUCTION TO DISABILITY HISTORY

This course examines the history of people with disabilities from the ancient world through the modern. It focuses on the lived experiences of people with disabilities and examine society's changing perception of disabled individuals. It also emphasizes works produced by people with disabilities themselves in more recent times.

3313 COLONIAL AMERICA, 1492-1763

This course focuses on the creation and development of European colonies in the New World, especially in North America, from the European discovery of America to the end of the French and Indian War. It compares and contrasts the cultures of the major European colonial powers and those of Native Americans. Key topics include European exploration and conquest, the everyday lives of colonists, their interactions with Native Americans, the development and spread of slavery, political and economic development, religious diversity and creativity, and colonial wars. This course is offered as needed.

3423 AMERICAN INDIAN HISTORY

History of American Indians in what is now the United States from pre-Columbian times to the present, exploring the cultural diversity among American Indians, tribal sovereignty, conflicts and accommodations with European Americans, and historical roots of contemporary Native American issues. This course is offered as needed.

3563 NINETEENTH CENTURY EUROPE, 1789-1890

An examination of the social, economic, and political history of Europe from 1789 to the passing of Bismarck. Special emphasis is placed upon the French and Industrial Revolutions and their long-range effects. This course is offered as needed.

3583 TWENTIETH CENTURY EUROPE, 1890-PRESENT

A study of the twentieth century and its dramatic developments, focusing especially on the challenges to liberalism embodied in the world wars, fascism, communism, and the Cold War. This course is offered as needed.

3713 AMERICAN RELIGIOUS HISTORY

A historical study of religion in America from the point of European contact to the present, with an emphasis on religious pluralism, church-state relations, theology, and cultural accommodation. Key topics include Puritanism, the Great Awakenings, evangelicalism, Catholicism, Mormonism, the Restoration Movement, the Social Gospel, Fundamentalism, and world religions in America. This course is offered as needed.

4013 REVOLUTIONARY AND EARLY NATIONAL AMERICA, 1763-1815

A study of the creation and development of the American republic from the end of the French and Indian War through the War of 1812 with an emphasis on politics and political thought, diplomacy, and religious and cultural developments. Particular attention will be paid to the emergence of American culture and nationalism, dissent and revolution, the Confederation and Constitution, the development of political parties, westward expansion, the War of 1812, and the personalities, politics, and religious beliefs of the founding generation. This course is offered as needed.

4113 JACKSONIAN AMERICA, 1815-1850

An examination of the political, economic, social, and cultural developments of the United States from the end of the War of 1812 through the 1840s with emphasis on the rise of Jacksonian democracy, religious revivals and innovations, revolutions in transportation, communications and market economics, the emergence of American nationalism, the bases for sectionalism, and America's westward expansion. Key topics include Jacksonian politics, the Second Party System, Indian removal, manifest destiny, the Second Great Awakening, and the Mexican-American War. This course is offered as needed.

4123 19TH AND 20TH CENTURY IRELAND

An examination of the political, economic, social and cultural events that shaped Ireland during two of the most tumultuous centuries of its existence—the 19th and 20th centuries. This course highlights key individuals and movements particularly the impact of Irish Nationalism and the role of women in the Nationalist and Unionist movements. Particular attention is given to religion's influence on Ireland and its continual role religion in creating and exacerbating tensions between the Republic of Ireland and Northern Ireland.

4353 U.S. HISTORY SINCE 1945

A study of America's political, diplomatic, social, economic, and cultural history since the end of WWII, focusing on the Cold War, McCarthyism, the expansion of civil rights, the Vietnam War, student protests, the Persian Gulf Wars, and popular culture. This course is offered as needed.

4613 MEDIEVAL EUROPE, 400-1300

A detailed study of the political, economic, and social history of Europe from the decline of the Roman Empire up to late Middle Ages, with special attention to key institutions which have shaped the modern world. This course is offered as needed.

4723 CIVIL WAR AND RECONSTRUCTION

A study of the social, economic, and political factors leading to the Civil War, 1861-1865, and the results of the conflict. This course is offered as needed.

4733 HISTORIOGRAPHY

Prerequisites: Senior standing and grade of "C" or better in HIST-2123. An examination of the history of historical writing from ancient to modern times focusing on major figures, trends, problems, philosophies, and methods associated with the discipline of history. Analyzing different interpretations of history will also be included with special attention given to the role of Christian scholars. This course is normally offered in the fall semester of odd numbered years.

4810 SPECIAL STUDIES

Content varies. Course may be repeated (1-3 hours). This course is offered as needed.

HONORS PROGRAM (HONR)

THE PREREQUISITE FOR ALL HONORS COURSES IS ADMISSION TO THE HONORS PROGRAM.

1000, 1100 HONORS ENRICHMENT I AND II

Honors students are required to attend three enrichment events per semester, such as OC academic lectures, Honors special projects, area cultural or religious events, etc. Honors students enroll in a section of Honors Enrichment every semester to help track their

participation.

1104 SACRED AND SECULAR THOUGHT AND EXPRESSION I

An interdisciplinary analysis of the confluent events and expressions - historical, political, religious, philosophical, artistic, scientific, and mathematical - that have shaped human thought, values, and culture through the 15th century. In particular, the course involves a deep reading of several biblical texts juxtaposed to similar texts in other cultures. This course is normally offered in the fall semester.

1204 SACRED AND SECULAR THOUGHT AND EXPRESSION II

An interdisciplinary analysis of the confluent events and expressions - historical, political, religious, philosophical, artistic, scientific, and mathematical - that have shaped human thought, values, and culture since the 15th century. The course focuses on the interplay of religious and non-religious development across various global cultures. Topics include the effect of each of these elements on our current American cultural and political realities. This course is normally offered in the spring semester.

1224 THE BIBLE, SCIENCE, AND HUMAN VALUES

A study of biblical teachings concerning the nature of human beings and order in God's universe compared and contrasted with specific discoveries and philosophies of science after the Renaissance. The course focuses on the specific ways in which the Bible and science interact to produce many of the human values common to contemporary Western civilization. This course is normally offered in the spring semester.

2000, 2100 HONORS ENRICHMENT III AND IV

Honors students are required to attend three enrichment events per semester, such as OC academic lectures, Honors special projects, area cultural or religious events, etc. Honors students enroll in a section of Honors Enrichment every semester to help track their participation.

2113 THE QUEST FOR MEANING: CHRIST AND THE GOOD LIFE

A course based on the supposition that Jesus Christ provides the best solution to persistent puzzles of life: "Why am I here?" "What is worth doing?" "How can I live a good life?" "Where am I going?" To see Jesus' answers in context, students investigate His life and teachings and note conflicts and conjunctions between His revelation and other views of the good life which have been significant for our culture. This course is normally offered in the fall semester.

2123 THE QUEST FOR IDENTITY: RACE, CLASS, AND GENDER IN AMERICAN THOUGHT

A study of American authors and texts in the nineteenth and twentieth centuries that have contributed in a significant way to our current understanding of American identity. Particular attention will be given to the conflict in our society between individualism and the community and how the conflict has influenced our current understanding of race, class, and gender. This course is normally offered in the spring semester.

3000, 3100 HONORS ENRICHMENT V AND VI

Honors students are required to attend three enrichment events per semester, such as OC academic lectures, Honors special projects, area cultural or religious events, etc. Honors students enroll in a section of Honors Enrichment every semester to help track their participation.

4000, 4100 HONORS ENRICHMENT VII AND VIII

Honors students are required to attend three enrichment events per semester, such as OC academic lectures, Honors special projects, area cultural or religious events, etc. Honors students enroll in a section of Honors Enrichment every semester to help track their participation.

4113 HONORS INTERNATIONAL EXPERIENCE

Honors students are encouraged to study abroad as a way to integrate and enrich the Honors core curriculum. To gain this credit, students may participate in any of Oklahoma Christian's academic study abroad programs that are six weeks or longer. CCCU and other study programs may count if approved by the honors director. Typically, to be approved, programs must be academic and involve at least six weeks of travel living outside the U.S. and Canada. (Typically, honors students use this course to receive credit for one of the two required study abroad courses: ABRD-1201 Study Abroad Seminar-Asian Studies and ABRD-2913-Studies in European Civilization.). This course is normally offered as needed.

4213 HONORS THESIS

Honors students may choose to pursue an Honors Thesis during the last two or three semesters at Oklahoma Christian. The Thesis option would be a three-hour credit for a student to work on a Thesis Project with a faculty supervisor and 1-2 reviewers. It may be research-based or a creative project, as appropriate to the student's discipline and with supervisor input. The thesis project requires two deliverables in the last semester of the thesis hours: a thesis/creative component and a campus-wide presentation (or appropriate event). A student wishing to pursue an Honors Thesis will fill out a form that includes his/her name, major/discipline, faculty supervisor, topic/thesis, and a brief description of the project with stated outputs along with a timeline. The faculty who will serve as supervisor must sign the form. Students must complete and submit the application form to the Honors Faculty Council for approval the semester before the thesis hours would begin (within the first month of the semester so students can enroll in the appropriate thesis hours when enrollment begins). This course is offered as needed.

4803 HONORS SPECIAL TOPICS

Subject matter varies. This course can be offered by any department on application to and

approval of the Honors Faculty Council. At least one section of this class is offered each spring. (Note: this course may be open to non-honors students at the discretion of the instructor.)

INFORMATION SYSTEMS (INFO)

1013 BUSINESS SOFTWARE TOOLS

This course provides a comprehensive overview of essential business software tools and their practical applications in various professional settings. Students will develop basic proficiency in using these tools to enhance productivity in business settings. This course covers spreadsheets, presentation software, database management, project management tools, collaboration platforms and artificial intelligence. Emphasis is placed on hands-on experience to ensure students gain the skills necessary to succeed in today's business environment. This course is normally offered in the fall and spring semester.

2013 BUSINESS ANALYTICS

Prerequisites: MATH-1223 or MATH-1173 and INFO-1013. Business Analytics is the process of transforming data into insights for the purpose of making better decisions. Students will learn data analytics using industry-standard software tools and statistical concepts. Real-world case studies and hands-on data projects will be completed. Ethical issues related to data usage will also be discussed. This course is normally offered in the fall and spring semester.

3613 MANAGEMENT INFORMATION SYSTEMS

A study of the conceptual and practical foundations of information processing support for management decision making and control functions. This course is normally offered in the fall, spring, and summer semester.

JAPANESE (JAPN)

1113 BASIC JAPANESE I

A study of beginning Japanese, enabling the student to understand, respond, read, and write basic Japanese. This course is designed for students participating in the Pacific Rim program. This course is normally offered as needed.

1213 BASIC JAPANESE II

Prerequisite: JAPN-1113. Basic Japanese II develops the language and writing skills students have begun in Basic Japanese I. The course requires students to increase their levels of understanding of Japanese, both oral and written. This course is normally offered in the spring semester.

LATIN (LATN)

1113 LATIN I (TEL ONLY)

Latin I introduces students to the basics of Latin grammar, syntax, and vocabulary.

LEADERSHIP (LDSH)

2003 EFFECTIVE LEADERSHIP

This course examines fundamental principles of leadership from a communication perspective, discussing how those principles are evident in politics, business, religious groups and organizations. Emphasis is placed on differentiating effective from ineffective leadership. This course is normally offered in the spring semester.

3003 PROFESSIONAL DEVELOPMENT THEORY AND PRACTICE

This course implements theories and models of adult experiential learning to help students learn how to understand and evaluate their previous learning experiences. Students are guided through the process of developing portfolios that critically assess and effectively communicate their prior learning. The portfolios serve to challenge specified courses within a degree plan whereby students articulate, evaluate, apply, and document their previous experiential learning in a way that maps onto course learning outcomes. Upon completion of this course, students can revise and submit their portfolios for evaluation to determine whether they sufficiently meet the outcomes to be awarded additional credit hours. This is the same as EDUC-3003. This course is normally offered in the fall and spring semesters.

4013 TOPICS IN LEADERSHIP

This course explores the fundamental principles and practices of effective leadership in different organizational contexts. It will help students develop an understanding of leadership theories and strategies and their real-world applications. The course aims to equip students with the knowledge and skills necessary to become successful leaders in various professional and personal contexts.

4023 TECHNOLOGY AND LEADERSHIP

This course explores the intersection of technology and leadership within contemporary organizational contexts. Students will examine how technological advancements influence leadership practices and vice versa. Topics include digital transformation, innovation management, strategic leadership, ethical considerations, and the role of emerging technologies in shaping organizational culture and decision-making processes.

MANAGEMENT (MGMT)

3113 PRINCIPLES OF MANAGEMENT

An introduction to the management processes of planning, organizing, leading, and controlling. The theory and history of management, decision making, policy planning, organization planning, supervising, coordinating and controlling, and human resources management are

studied. This course is normally offered in the fall and spring semester.

3323 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT

Prerequisite: Junior standing or permission of instructor. An introduction and examination of entrepreneurial, small business, self-employment opportunities, and new venture processes. The course covers managerial activities needed for start-up and operation of the small business enterprise. This course is offered in the fall and summer semester.

4313 ORGANIZATIONAL BEHAVIOR

Prerequisite: PSYC-1113. An integration of social sciences as they affect people at work. The organization is analyzed from the standpoint of three interacting systems: the individual, the group, and the organization itself. Emphasis is placed on managing organizational behavior. (Same as PSYC-4313 or SOCI-4313.) This course is normally offered in the spring semester.

4513 HUMAN RESOURCE MANAGEMENT

Prerequisites: MGMT-3113. A study of the major human resource management processes including staffing, training and development, appraisal, compensation, leadership, organizational justice, labor relations, quality of work life, and employee health and safety. The course focuses on contemporary human resource management issues. This course is normally offered in the fall semester.

4533 ISSUES IN MANAGEMENT

Prerequisite: MGMT-3113. Taught as the capstone course for management majors, this course covers a selection of current issues and specialized topics in management, and prepares students for the world of professional management in a field of their choice or interest. This course is normally offered in the fall semester.

4613 STRATEGIC MANAGEMENT

Prerequisites: FINC-3313, MGMT-3113, MKTG-3313 and Senior standing. A capstone seminar that draws together the concepts and tools studied in previous business courses. The course uses the case method of instruction and a computer-based simulation, and it affords practice in analyzing authentic managerial problems in free enterprise from the varying viewpoints of diverse disciplines and practice in forming workable solutions which consider both technical and human factors. The course gives particular attention to the standards of conduct appropriate for Christian leaders. This course is normally offered in the fall and spring semester.

4743 SOCIAL ENTREPRENEURSHIP

A study and application of the international consulting process using social-entrepreneurial tools to address problems in developing nations. Topics addressed include: poverty, "when helping hurts," microfinance, access to capital, problems with aid, social entrepreneurship, fair trade, performance analysis, conscious capitalism, and service centered missions. Each student will work individually and, in a team, to address a specific, real-world problem or change effort currently underway in a variety of international settings. Same as MISS-4743. This course is normally offered in the spring semester.

4990 INTERNSHIP IN MANAGEMENT

Prerequisites: Admission to Division of Business upper division, completion of MGMT-3113 and approval of advisor and chair. Supervised and approved management internship with a firm or organization; written and oral reports are required along with employer evaluation. (Variable credit, 1-3 semester hours; 30 hours work required for each hour of credit with a maximum of 3 credit hours.) This course is offered as needed.

MARKETING (MKTG)

2413 CONSUMER BEHAVIOR

The study of consumer motivations and values in the light of social and psychological theory. This background provides standards of the social and human evaluation of marketing activities, with emphasis on consumer motivation and consumer psychological makeup. The course develops the relationship between social and psychological factors in marketing activities. This course is normally offered in the spring semester.

3313 PRINCIPLES OF MARKETING

An introduction to the fundamentals of marketing. Product distribution, promotion, and price are studied with emphasis on the marketing aspects of managerial decision making in a dynamic society. This course is normally offered in the fall, spring, and summer semester.

3513 DIGITAL MARKETING

An in-depth study of the digital marketing arena, including e-business, e-marketing, web design, social media marketing, and digital marketing tools. This course is normally offered in the Fall semester.

3713 SALES MANAGEMENT AND THE SALES PROCESS

Prerequisite: Junior standing. An in-depth look at the process of selling all types of products and services and at the process of managing a sales territory. A combination of lecture, class discussion, and student presentations will be utilized. This course is normally offered in the spring semester.

3733 PROMOTIONAL STRATEGIES

An introduction to the various communication channels available for the spread of promotional information about goods, services, and ideas to prospects. The course gives students experience in planning, implementing, and controlling a program of promotional communication for a client. This course is normally offered in the spring semester.

4513 MARKETING RESEARCH AND ANALYSIS

Prerequisites: Junior standing. The study of marketing research theory and technique with special emphasis on the use of the scientific method. The course seeks to develop the student's ability to analyze data, to use marketing research tools, to use data visualization tools, and to write professional research reports. This course is normally offered in the fall semester.

4613 MARKETING MANAGEMENT

Prerequisite: Senior standing. A study of managerial aspects of the marketing function, emphasizing the qualitative criteria utilized in evaluating marketing alternatives. The course includes topics related to the decision-making process such as marketing research, product development, advertising and promotion, sales management, cost and demand analysis, competition, pricing, packaging, and forecasting. This course is normally offered in the spring and summer semester.

4990 INTERNSHIP IN MARKETING

Prerequisites: Admission to upper division, completion of MKTG-3313 and approval of advisor and chair. Supervised marketing internship with approved firm or organization; written and oral reports are required. (Variable credit, 1-3 semester hours; 30 hours work required for each hour of credit with a maximum of 3 credit hours.) This course is offered as needed.

MATHEMATICS (MATH)

1163 APPLIED MATHEMATICS

Prerequisite: SDEV-0103 or a math ACT score of 19 or higher. Exploration of various topics designed to give the student an appreciation of mathematics and to expose the student to mathematical problems within numerous disciplines. Topics include an introduction to set theory, geometry, simple modeling with personal finance, and elementary graph theory. Mathematical processes will be applied to financial, artistic, and social problems. Not intended for students majoring in business, computer science, mathematics, nursing, or science. This course is normally offered in the fall semester.

1173 QUANTITATIVE REASONING

Prerequisite: SDEV-0103 or a math ACT score of 19 or higher. The purpose of this course is for students to learn how to analyze quantitative data in order to draw logical conclusions from real life situations. Topics include an introduction to logic, proportions and percentages, simple modeling (finance, growth, etc.), and elementary probability and statistics. Quantitative reasoning skills and statistical thinking will be applied to financial, environmental, and social problems. Not intended for students majoring in computer science, mathematics, or science. This course is normally offered every semester.

1213 COLLEGE ALGEBRA (TEL ONLY)

Prerequisite: SDEV-0103, a math ACT score of 23 or higher, or approval of advisor. College Algebra provides a comprehensive introduction to the foundations of mathematics typically taught in a traditional college algebra course. This core course develops problem-solving strategies and establishes a firm foundation for higher levels of mathematics.

1223 MATHEMATICAL FUNCTIONS AND MODELING

Prerequisite: SDEV-0103 or math ACT score of 23 or higher. Study of equations and functions (linear, polynomial, rational, exponential, logarithmic) from various perspectives (symbolic, verbal, numerical, graphical). Technology will be used for graphing functions, solving equations, and modeling data using regressions. This course is designed for students in computer science, mathematics, science, or social science majors. This course is normally offered every semester.

1403 MATHEMATICS FOR TEACHERS I

Prerequisite: MATH ACT of 19 or higher or equivalent. Exploration of various topics are designed to give the student an appreciation of mathematics and to expose the student to mathematical problems within numerous disciplines. Topics include critical thinking and mathematical literacy skills, quantitative reasoning and problem-solving skills, fundamental principles and concepts of algebra, fundamental principles and concepts of geometry, concepts of measurement, and statistics and the corresponding analysis of data. Intended for prospective elementary school teachers seeking alternative certification.

1413 MATHEMATICS FOR TEACHERS II

Prerequisite: MATH-1403 - no substitutions are allowed. Exploration of various topics are designed to give the student an appreciation of mathematics and to expose the student to mathematical problems within numerous disciplines. Topics include operations and algebraic thinking, number and operations, proportional reasoning, expressions and equations, concepts of functions, concepts of data analysis, and concepts of probability. Intended for prospective elementary school teachers seeking alternative certification.

1614 PRE-CALCULUS

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher. This course is designed to prepare students for college-level calculus courses. Since the basic tool used in calculus is the real-valued function, this course will focus on the definition, evaluation, simplification, and application of such functions. This course will cover the algebra of linear, polynomial, rational, exponential, and logarithmic functions along with a special emphasis on the trigonometric functions. This course is normally offered every semester.

1623 INTRODUCTION TO DISCRETE MATHEMATICS

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher. Topics include sets and set relations, functions, proof techniques, logic, logic functions, logic circuits, counting techniques, and graph theory. This course is normally offered in the spring semester.

2113 BUSINESS CALCULUS

Prerequisite: MATH-1223. Analytic geometry, limits, derivatives, and integrals involving algebraic, exponential, and logarithmic functions. Applications are primarily related to the areas of business and social sciences. This course is normally offered in the spring semester.

2114 CALCULUS I WITH ANALYTICAL GEOMETRY

Prerequisites: MATH-1614 or the equivalent. Differentiations and integrations of algebraic and transcendental functions, applications, and analytical geometry. This course is normally offered every semester.

2123 THE HISTORY OF MATHEMATICS: A CULTURAL PERSPECTIVE

Prerequisites: Any Math course. This course will examine some of the great historical literary works in the field of mathematics from a cultural perspective. Students will also be exposed to mathematical fiction as a genre of literature. This course does not fulfill the general education mathematics requirement. This course can fulfill a Great Works requirement for some degrees. The course is normally offered in the summer semester.

2214 CALCULUS II WITH ANALYTICAL GEOMETRY

Prerequisite: MATH-2114. Differentiations and integrations of inverse trigonometric functions, logarithmic functions, and exponential functions. Topics include formal integration techniques, polar coordinates, conic sections, sequences, and series. This course is normally offered every semester.

2314 CALCULUS III

Prerequisite: MATH-2214. The calculus of functions of several variables, partial differentiation, multiple integrals, vectors, and vector functions. This course is normally offered every semester.

2913 STATISTICAL METHODS

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher. Basic experimental statistics, basic probability distributions, methods of estimations, tests of significance, sampling techniques, inferences concerning population parameters, regression, and correlation. This course is normally offered every semester.

3013 DIFFERENTIAL EQUATIONS

Prerequisite: MATH-2214. First order and simple higher-order differential equations, linear equations with constant coefficients, simultaneous differential equations, series solutions, and applications. This course is normally offered every semester.

3113 NUMBER THEORY

Prerequisite: MATH-2214. Divisibility, primes, congruences, functions of number theory, Diophantine equations, Farey fractions, and other related topics. This course is normally offered in the spring semester of even numbered years.

3123 MATHEMATICAL MODELING AND STRATEGIES FOR SECONDARY TEACHERS

Prerequisites: MATH-2214 and permission of instructor. Designed for secondary mathematics teachers to provide experiences that develop significant connections among mathematical ideas and applications of these ideas to problem solving in mathematics. The course includes opportunities for the prospective mathematics teacher to reflect critically on teaching practices and curriculum and to use a variety of tools of technology and manipulatives to create environments to help students learn. This course also includes a survey of the historical development of mathematical systems, including those contributions of underrepresented groups and diverse cultures. This course is normally offered in the fall semester of even numbered years.

3313 MODERN ALGEBRA I

Prerequisite: MATH-2214. An introduction to modern algebra. Topics include concepts from set theory, number systems, groups, rings, and fields. This course is normally offered in the fall semester of even numbered years.

3413 MODERN ALGEBRA II

Prerequisite: MATH-3313. A continuation of Modern Algebra I, including vector spaces, polynomial rings, and ideals. This course is normally offered in the spring semester of odd numbered years.

3513 LINEAR ALGEBRA

Prerequisite: MATH-2214. Matrix theory, quadratic forms, determinants, linear transformations, systems of equations, eigenvalues, and eigenvectors. This course is normally offered every fall semester.

3813 MODERN GEOMETRY

Prerequisite: MATH-2214. Advanced Euclidean geometry, axiomatic geometries, non-Euclidean geometry, and graph theory. This course is offered as needed.

4113 PROBABILITY AND STATISTICS I

Prerequisite: MATH-2314. Simple probability models, random variables, distribution functions, and discrete and continuous distributions. This course is normally offered in the fall semester of odd numbered years.

4213 PROBABILITY AND STATISTICS II

Prerequisite: MATH-4113. Sampling, presentation of data, testing statistical hypotheses, estimating and testing variability, and comparisons of populations. This course is normally offered in the spring semester of even numbered years.

4313 COMPLEX VARIABLES

Prerequisites: Any two math courses numbered 3000 or above. Complex numbers, analytic functions, integration series, contour integration, analytic continuation and multi-valued problems, conformal mappings, boundary value problems, and integral transforms. This course is offered as needed.

MECHANICAL ENGINEERING (MECH)

1001, 1011, 2001, 2011, 3001, 3011 MECHANICAL ENGINEERING EXPERIENCE 1-6

Prerequisites: Advisor approval required. This series of courses, based in experiential learning, is designed to enrich the mechanical engineering core courses through the practical application of lecture content via hands-on labs, experiments, guest presenters, and design projects. Additional non-technical materials will be supplemented. These classes are offered every semester, specific to the student year.

2623 MECHANICAL ENGINEERING CIRCUITS

Corequisite: PHYS-2614. Introduction to electrical circuit analysis tailored to mechanical engineering students. Introduction to analog components, Kirchhoff's loop and node laws, operational amplifier circuits, first- and second-order response, sinusoidal response, and frequency response. Lecture - 3 hours. This course is normally offered in the fall semester.

3403 ENGINEERING MATERIALS

Corequisites: ENGR-2533. An introduction to engineering materials with emphasis placed on proper material selection in design. Course topics will include the relationships between microscopic structure and the mechanical properties of metals, polymers, and ceramics and how material properties may be "engineered" through alloying, heat treating, etc. Lecture - 3 hours. This course is offered in the fall semester.

3443 FLUID MECHANICS

Prerequisite: ENGR-2433 and MATH-3013. A study of fluid statics and dynamics. Application of mass, energy and momentum conservation principles to design and analysis of fluid devices and systems, including introductions to boundary layer theory, dimensional analysis and compressible flow. Lecture – 3 hours. This course is normally offered in the spring semester.

3611 MANUFACTURING PROCESSES

Corequisites: ENGR-3403. An introduction to the various techniques and manufacturing processes used to fabricate and assemble components. Emphasis is placed on understanding the advantages and limitations of each technique. Laboratory – 3 hours. This course is normally offered in the spring semester.

4001 MECHANICAL ENGINEERING EXPERIENCE 7

Prerequisites: Advisor approval required. This series of courses, based in experiential learning, is designed to enrich the mechanical engineering core courses through the practical application of lecture content via hands-on labs, experiments, guest presenters, and design projects. Additional non-technical materials will be supplemented. These classes are offered every semester, specific to the student year.

4003 ROBOTICS AND AUTOMATION

Prerequisites: CMSC-1113 or ENGR-1132; PHYS-2614. An introduction to the equipment and techniques used in industrial automation equipment. Topics range from a review of basic components (including motors, pneumatic actuators, and sensors) and PLC controllers. Lecture - 3 hours. This course is typically offered in the fall semester.

4011 MECHANICAL ENGINEERING EXPERIENCE 8

Prerequisites: Advisor approval required. This series of courses, based in experiential learning, is designed to enrich the mechanical engineering core courses through the practical application of lecture content via hands-on labs, experiments, guest presenters, and design projects. Additional non-technical materials will be supplemented. These classes are offered every semester, specific to the student year.

4112 LINEAR SYSTEMS MODELING

Prerequisites: MATH-3013 and ENGR-2623. Mathematical modeling for dynamic response of electrical, mechanical, fluid, and thermal systems. System response characteristics are investigated by use of state variable theory, time domain and frequency response analysis, and root locus methods. Lecture - 2 hours. This course is normally offered in the spring semester.

4133 DYNAMIC SYSTEMS & CONTROLS

Prerequisites: MATH-3013 and MECH-2623. Corequisite: ENGR-2523. Mathematical modeling for dynamic response of electrical, mechanical, fluid, and thermal systems. Introduction to control systems. System response characteristics are investigated by use of state variable theory, time domain and frequency domain response analysis, root locus methods, and stability criteria. Design of mechanical engineering control systems.

4213 MACHINE DESIGN

Prerequisite: ENGR-2533. Analysis of machine components, stress analysis, failure prediction, fatigue failure, safety, and reliability. Lecture – 3 hours. This course is normally offered in the spring semester.

4243 HEAT TRANSFER

Prerequisite: MECH-3443. Analysis of heat transfer devices and systems. Analytical solutions of conservation equations including conduction, convection, and radiation effects. Design and analysis of heat exchangers. Lecture – 3 hours. This course is normally offered in the fall semester.

4313 AERODYNAMIC DESIGN

Corequisite: ENGR-2523. An introduction to the design of two and three-dimensional aerodynamic surfaces including symmetrical and cambered airfoils and high lift devices. Theoretical analysis will be performed using elementary potential theory and other computer analysis. This course is normally offered in the fall semester.

4433 MECHATRONIC SYSTEM DESIGN

Prerequisites: MECH-4003, ELEC-3303, and ELEC-4423. Modeling and evaluation of mechanical and electrical systems. The course will utilize a project-based approach that follows the V-Model framework for systems engineering. Topics include: model-based systems engineering; system performance criteria and evaluation; and mixed-technology design and integration. This course is normally offered in the spring semester. (Same as ELEC-4433).

4523 FINITE ELEMENT ANALYSIS

Corequisite: MECH-4213. An introduction to the mathematical foundation of the finite element method and the responsible application of the technique to mechanical design and analysis. The mathematical element formulations for simple truss, beam, and conduction problems, as well as the use of commercial finite element software will be addressed. This course is normally offered in the spring semester.

4533 VIBRATION THEORY AND APPLICATION

Prerequisite: MATH-3013 and ENGR-2523. A study of free and forced vibration of both single and multiple degree-of-freedom mechanical and structural systems with and without damping, design of vibration isolators and absorbers, and shock spectrums. Experimental methods for measuring vibratory response will be introduced. Lecture - 3 hours. This course is typically offered in the fall semester.

4623 ADVANCED ENGINEERING MATERIALS

Prerequisite: MECH-3403. A continuation of the study of material science, including a more in depth look at metal and polymer behaviors, plus discussions of modern materials including composites, nanomaterial, and multifunctional materials such as shape memory alloys. Special emphasis will be placed on material selection considerations for engineering design. Lecture – 3 hours. This course is normally offered in the spring semester.

4732 SYSTEMS DESIGN I

Corequisites: MECH-3443 and advisor permission. A recap and extension of problem-solving skills introduced in earlier courses using a systems design approach; to prepare the student for the capstone design project work of MECH-4742 and MECH-4752; topics to include engineering design terminology, methodology and procedures; technical memos and reports; safety, ethics, information gathering and team dynamics. Significant emphasis on oral presentations is included. Laboratory - 3 hours. This course is normally offered in the spring semester.

4743 SYSTEMS DESIGN II

Prerequisites: Advisor permission and MECH-4732. An implementation of the design methodology covered in Systems Design I. Applications of research and design relating to real world or industry problems; interaction with other fields of engineering and science. MECH-4742 and MECH-4752 constitute a single two-semester project experience. Laboratory – 6 hours. Same as ELEC-4743 and CENG-4743. This course is normally offered every semester.

4753 SYSTEMS DESIGN III

Prerequisites: Advisor permission and MECH-4743. A continuation and completion of the capstone design project begun in MECH-4742. Students not successfully completing the entire project must normally retake MECH-4742/4752 with a new project assignment.

4923 INTERNSHIP FOR ENGINEERING PRACTICE

The engineering programs encourage all students to participate in at least one summer of engineering internship work. The engineering internship experience is very important to providing real-world application of the classroom experience and also has become an expectation by employers of engineers internationally. This course allows international students in F-1 status majoring in engineering at OC to participate in Curricular Practical Training. Enrollment in this course will be under the supervision of an individual engineering professor. A journal or summary paper of the internship experience will be required at the conclusion of the employment period. 1 to 3 credit hours. This course is offered as needed.

MEDICAL LABORATORY SCIENCES (MLSP)

4001 INTRODUCTION TO MEDICAL LABORATORY

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. This one-hour course is a study of the laboratory environment including laboratory safety, equipment, instrumentation, vocabulary, and quality control/quality assurance: includes the principles and techniques used in phlebotomy and practicum in processing and phlebotomy. This course is usually offered during the fall semester.

4002 PATHOGENIC MICROBIOLOGY PRACTICUM

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. Corequisite: MLSP-4001 and MLSP-4003. This two-semester hour practicum emphasizes the examination and identification of pathogenic microbes in abnormal blood, and other body fluids and tissues with emphasis on their relationships to various disease processes. This course is usually offered during the fall semester.

4005 CLINICAL IMMUNOLOGY, IMMUNOHEMATOLOGY AND LAB

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. Concurrent enrollment in the following courses is required: MLSP-4001 and MLSP-4012. This is a study of autoimmunity and immune responses including laboratory testing and clinical correlation; also included are the major blood.

4011 URINALYSIS AND BODY FLUIDS

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. Concurrent enrollment in the following course is required: MLSP-4001. This one-hour course is a study of selected body fluids including urine, amniotic fluid, cerebrospinal fluid, pleural fluid, peritoneal fluid, pericardial fluid, and synovial fluid. This course is usually offered during the fall semester.

4012 BLOOD BANK PRACTICUM

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. Concurrent enrollment in the following courses is required: MLSP-4001 and MLSP-4004. This two-hour practicum allows the student to obtain practical experience, with direct supervision, within the Blood Bank Department performing testing of blood group systems, compatibility testing, and transfusion reactions work-ups, at MLS entry level job position. This course is usually offered during the fall semester.

4015 CLINICAL PATHOGENIC MICROBIOLOGY

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. Concurrent enrollment in the following courses is required: MLSP-4001 and MLSP-4002. This course emphasizes diagnostic clinical microbiology. Examination of samples from different body sites provides students the opportunity to recognize and identify organisms that comprise the normal flora and those that are potential pathogens. This course includes conventional and rapid biochemical methods for detection and identification of significant organisms. Principles and application of quality control procedures are discussed. This course is usually offered during the fall semester.

4021 HEMOSTASIS

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. Concurrent enrollment in the following course is required: MLSP-4001. This one-hour course is a study of the normal process of blood coagulation, including laboratory testing methods. The focus is on disease processes such as idiopathic thrombocytopenic purpura (ITP), autoimmune and alloimmune thrombocytopenia, thrombocytopenic purpura (TTP) commonly seen in the medical laboratory. This course is usually offered during the fall semester.

4022 MOLECULAR LABORATORY PRACTICUM

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, MATH-2913. Concurrent enrollment in the following course is required: MLSP-4001. This two-hour practicum emphasizes the examination of normal and abnormal blood serum and plasma, and other body fluids in the clinical setting with emphasis on their relationships to various disease processes with emphasis on molecular methodology in treatment and diagnosis. The student is introduced to the use of immunogenetics, histocompatibility, and transplant immunology. This course is usually offered during the fall semester.

4101 MEDICAL LABORATORY SCIENCE CERTIFICATION REVIEW

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, MATH-2913, MLSP-4001, MLSP-4002, and MLSP-4004. Concurrent enrollment in the following courses is required: MLSP-4102, MLSP-4103, and MLSP-4104. This one-hour course is a review of MLS coursework in preparation to sit for the American Society of Clinical Pathology (ASCP) Board of Certification (BOC). This course is usually offered during the spring semester.

4102 LABORATORY MANAGEMENT

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, and MATH-2913. Concurrent enrollment in the following course is required: MLSP-4001. This two-hour course is designed to provide the student with the opportunity to develop entry level management and supervisory skills. Topics include principles of communication; leadership styles; interviewing; planning; financial analysis; and policies, procedures, and regulations. Learning principles and objectives are discussed. This course is usually offered during the spring semester.

4103 CLINICAL CHEMISTRY

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, MATH-2913, and MLSP-4001. Concurrent enrollment in the following course is required: MLSP-4122. This three-hour course covers the theory and laboratory methodology of analytical biochemistry, instrumentation, laboratory mathematics, routine and special procedures, and medical significance. This course is usually offered during the spring semester.

4104 HEMATOLOGY AND LAB

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, MATH-2913, MLSP-4001, MLSP-4011, and MLSP-4021. Concurrent enrollment in the following course is required: MLSP-4112. This four-hour course is a study of the normal production, maturation, and function of erythrocytes, leukocytes, and platelets. Common disorders involving such cells will be discussed with emphasis on the pathogenic mechanisms. Hematologic laboratory tests and

their correlations with disease states will also be examined. An introduction to quality control methods will also be included. The laboratory portion of the course emphasizes the examination of normal and abnormal blood smears with emphasis on identification of cells and their relationships to various disease processes. This course is usually offered during the spring semester.

4112 HEMATOLOGY, COAGULATION URINALYSIS AND BODY FLUIDS PRACTICUM

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, MATH-2913, MLSP-4001, and MLSP-4021. Concurrent enrollment in the following courses is required: MLSP-4104 and MLSP-4103. This two-hour practicum allows the student to obtain practical experience, with direct supervision, within the Hematology, Coagulation and Urinalysis Department performing analytical tests on blood cells, plasma, urine and body fluids, at MLS entry level job positions. This course is usually offered during the spring semester.

4122 CHEMISTRY PRACTICUM

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, MATH-2913, MLSP-4001, and MLSP-4021. Concurrent enrollment in the following courses is required: MLSP-4103 and MLSP-4104. This two-hour practicum allows the student to obtain practical experience, with direct supervision, within the Chemistry Department performing analytical tests on serum, plasma, urine and body fluids, at MLS entry level job positions. This course is usually offered during the spring semester.

4132 MISCELLANEOUS LABORATORY PRACTICUM

Prerequisites: BIOL-1115, BIOL-2022, BIOL-2314, BIOL-2523, BIOL-2624, BIOL-3224, BIOL-4014, BIOL-4213, CHEM-1115, CHEM-1215, CHEM-3115, MATH-1223, MATH-2913, MLSP-4001, MLSP-4003, MLSP-4004, and MLSP-4021. Concurrent enrollment in the following courses is required: MLSP-4102, MLSP-4103, and MLSP-4104. This two-hour course emphasizes the examination of normal and abnormal blood serum and plasma, and other body fluids in the clinical setting with emphasis on their relationships to various disease processes. This practicum will have emphasis on professionalism, research, and service in healthcare and the specific needs of the student. This course is usually offered during the spring semester.

MUSIC (MUSC)

1000 RECITAL ATTENDANCE

Regular attendance at on and off campus musical performances. Required each semester for music majors. This course is normally offered every semester.

1023 FUNDAMENTALS OF MUSIC THEORY

Includes notation and drills in keys, scales, intervals, triads, and score reading, and emphasizes basic skills in sight-reading rhythm and pitch in bass and treble clefs. The course is not applicable for credit in major, but is required if the student is unable to pass minimum requirements for admission to MUSC-1112 (which follows in the music theory sequence). This course is normally offered in the fall semester.

1112 MUSIC THEORY I

Prerequisite: MUSC-1023, if a student is unable to meet minimum entrance requirements. Chord connection, four-part writing, cadences, dictation and sight singing of intervals, scales and melodies, rhythms, broken chords and keyboard application. Class – 3 hours. This course is normally offered in the spring semester.

MUSIC THEORY SEQUENCE II

Prerequisite: MUSC-1112. The two courses below cover secondary diatonic chords, non-harmonic tones, dominant sevenths, simple modulation, dictation, and sight singing of more difficult melodies, intervals, scales, and rhythms, cadences, etc. Concurrent enrollment in both is required except with permission of the department chair. Offered in the fall semester.

1211 EAR TRAINING II

Class – 2 hours. This course is normally offered in the fall semester.

1212 MUSIC THEORY II

Class – 2 hours. This course is normally offered in the fall semester.

1031 VOCAL ENSEMBLE

A student may register for credit in an ensemble in which they perform if the group is sufficiently active to justify the credit. Permission of instructor required. This course is offered as needed.

1311 UNIVERSITY CHORALE

The OC Chorale offers opportunities for experience in choral singing. A wide range of both sacred and secular choral literature is studied with numerous performances scheduled. Participation of members in all scheduled rehearsals and performances is required. Membership by audition. Rehearsal – 4 hours. This course is normally offered every semester.

1321 MUSIC PRODUCTION WORKSHOP

Prerequisite: Permission of instructor required. Requires at least 60 hours in rehearsal and performance on stage in a faculty-directed campus musical production. This course is normally offered every semester.

1331 SYMPHONIC BAND

The OC Symphonic Band performs for campus functions, in concert and on tour. Participation of all members in scheduled rehearsals and performances is required. Membership by audition. Rehearsal – 4 hours. This course is normally offered every semester.

1341 JAZZ ENSEMBLE

Prerequisite: participation in Symphonic Band or instructor permission. Large ensemble jazz music is the emphasis of this group. Performs for campus and civic functions in concert and on tour. Membership by audition. Rehearsal – 3 hours. This course is normally offered every semester.

1351 INSTRUMENTAL ENSEMBLE

Prerequisite: Permission of instructor required. A student may register for credit in an ensemble in which he or she performs if the group is sufficiently active to justify the credit. This might include such groups as the brass choir or OC's Sweat Band, a group performing at home basketball games in the "Eagles' Nest." This course is normally offered every semester.

1361 ORCHESTRA

Credit for orchestra is available to OC students through participation in the Oklahoma Community Orchestra, the university's official orchestra-in-residence. Permission required. Rehearsal – 2.5 hours. This course is normally offered every semester.

1371 UNIVERSITY SINGERS

OC's largest chorus, open to all students. No audition is required. Performs several concerts throughout the school year. This course is normally offered every semester.

1381 OPERA STUDIO

Prerequisite: permission of instructor required. Requires at least 60 hours in rehearsal and performance on stage in a faculty-directed campus opera production. This course is offered as needed.

1391 CHAMBER SINGERS

Prerequisite: Participation in University chorale or instructor permission. The study and performance of significant choral works from all periods of musical style. Membership by audition. Rehearsal – 3 hours. This course is normally offered every semester.

1451 UNIVERSITY CHAMBER ORCHESTRA

The OC chamber orchestra studies chamber music of varied musical styles and performs concerts for university and civic programs. Sight-reading skills are also emphasized. Membership by permission. Rehearsal – 2.5 hours. This course is normally offered every semester.

PRIVATE INSTRUCTION

Students may register for private instruction in piano, voice or any of the instruments listed, composition, or improvisation. Piano students will audition for placement in Class Piano or private instruction. Students registering for one-hour credit (such as 1501) receive one half hour lesson per week. Those registering for two hours credit (such as 1502) receive one one-hour lesson per week. There is a fee of \$225 per credit hour for all private instruction classes. Some private lessons additionally require payment of accompanist fees at \$20 per hour. Students should check with the private instructor to determine specific accompanist expectations.

1501, 1502 PIANO

Prerequisite: MUSC-2581 or instructor permission. This course is normally offered every semester.

1511, 1512 VOICE

This course is normally offered every semester.

1531, 1532 BRASS INSTRUMENT

This course is normally offered every semester.

1541, 1542 WOODWIND INSTRUMENT

This course is normally offered every semester.

1551, 1552 PERCUSSION INSTRUMENT

This course is normally offered every semester.

1561, 1562 STRING INSTRUMENT

This course is normally offered every semester.

1571, 1572 GUITAR

This course is normally offered every semester.

1581 CLASS PIANO I

An introduction to piano playing for the student with little or no prior keyboard experience. Instruction will stress understanding notation of pitch and rhythm; playing with appropriate fingering, articulation and dynamics; gaining technical facility and coordination between hands; playing pieces in major and minor five-finger patterns; and playing melodies with triad accompaniments. Some selections will be memorized. Class - 2 hours. This course is normally offered every semester.

1612 APPLIED COMPOSITION

Prerequisite: Permission of the music department chair. This course is normally offered every semester. There is a fee per credit hour for this course.

1681 CLASS PIANO II

Prerequisite: Grade of B or better in Class Piano I, or audition for piano faculty. Continuation of skills presented in Class Piano I or previous keyboard experience. Students will sight read and play ensemble and solo repertoire of various styles and technical studies in major and minor keys. Basic skills emphasized include 2-octave major and minor scales; major, all types

of triads in progressions, inversions, and arpeggios; harmonizing melodies, using diatonic and second chords appropriately; and using the damper pedal. Classes normally limited to eight students. Class - 2 hours. This course is normally offered every semester.

1691 APPLIED IMPROVISATION

Prerequisite: Permission of the music department chair. Private lesson in jazz improvisation with the instrument of the student's choice. This course is normally offered every semester. There is a fee per credit hour for this course.

2013 MUSIC APPRECIATION

A survey course designed to furnish a basis for intelligent appreciation for music with the opportunity for students to listen to recordings and to attend concerts. This course is normally offered every semester.

2023 JAZZ APPRECIATION

This course provides an overview of jazz and how it has influenced the American 'story.' We will analyze jazz compositions while studying the social and cultural settings that contributed to its evolution. Attention will be given to how jazz reinforced freedom of expression through collaborative improvisation. We will introduce students to the jazz idiom, emphasizing listening skills and developing critical thinking and writing skills that will allow the student to comment intelligently about the music and its place in society. The course will focus on various jazz styles including cool, modal, bebop, hard bop, swing, and early jazz. Contributions by central jazz figures will be studied. By achieving the outcomes, the student will gain an understanding of jazz in a variety of contexts, including historical, cultural, and social.

MUSIC THEORY SEQUENCE III

The two courses below cover modulation to closely related keys, altered chords and higher discords, original melodies and harmonization, and ear training. Concurrent enrollment in both is required except with permission of the department chair. This course is normally offered in the spring semester.

2111 EAR TRAINING III

Class – 2 hours. This course is normally offered in the spring semester.

2112 MUSIC THEORY III

Class – 2 hours. This course is normally offered in the spring semester.

MUSIC THEORY SEQUENCE IV

The two courses below cover a continuation of altered chords, augmented sixths, secondary diminished sevenths, remote and enharmonic modulations, aural study of remote modulations, unusual and mixed meters, and altered chords. Concurrent enrollment in both is required except with permission of the program chair. This course is normally offered in the fall semester.

2211 EAR TRAINING IV

Class – 2 hours. This course is normally offered in the fall semester.

2212 MUSIC THEORY IV

Class – 2 hours. This course is normally offered in the fall semester.

2523 INTRODUCTION TO VOCAL DICTION AND PEDAGOGY

In this course students explore basic knowledge of respiration, phonation, resonance and articulation; concepts and techniques for the teaching of singing; historical concepts of voice building; diction/pronunciation skills for singing in English; introduction to phonetic analysis of vocal music in English.

2581 CLASS PIANO III

Prerequisite: Grade of B or better in Class Piano II, or audition for piano faculty. Continues functional piano skills from Class Piano II or previous keyboard experience. The primary focus is learning to play intermediate repertoire from various historical periods of music with appropriate style and fluency. Assignments provide opportunity to develop skills in sight reading, playing I-IV-I-V-I progressions in all keys and positions, playing 2-octave scales in all keys, harmonizing and transposing melodies using diatonic triads, seventh chords, and secondary chords. The final exam for Class Piano III includes the opportunity to pass the repertoire section of the Piano Proficiency Exam, which is a graduation requirement for OC music majors. Classes normally limited to eight students. Class - 2 hours. This course is normally offered in the fall semester.

2681 CLASS PIANO IV

Prerequisite: Grade of B or better in Class Piano III, or audition for piano faculty. This is the capstone course in the pursuit of functional piano skills for music majors. Assignments continue to develop technical skill in playing scales, chord progressions, modulations, and ensemble repertoire. Emphasis is placed on harmonizing and improvising accompaniments in various styles, score reading, and accompanying instrumentalists and vocalists fluently. The final exam includes the sight reading, accompanying, and functional skills sections of the Piano Proficiency Exam, which is a graduation requirement for all music majors. Students must continue to enroll in piano until the exam is passed with a score of 85% or better. Classes normally limited to eight students. Class - 2 hours. This course is normally offered in the spring semester.

3000 JUNIOR RECITAL

Prerequisite: To enroll, students must have achieved a satisfactory level of performance skill as specified in published departmental materials. Elective solo recital performance on major instruments in the student's junior year. This course is offered as needed.

3121 CLASS WOODWINDS

A practical study of woodwind instruments of the band with emphasis on embouchure development, articulation techniques, and general pedagogical principles. This course is normally offered in the spring semester of even numbered years.

3131 CLASS BRASS

A practical study of the brass instruments of the band with emphasis on embouchure development, articulation techniques, and general pedagogical principles. This course is normally offered in the fall semester of odd numbered years.

3141 CLASS PERCUSSION

A practical study of the percussion instruments of the band, including an introduction to rudiments and basic playing technique, plus an overview of all the instruments of the section. This course is normally offered in the spring semester of odd numbered years.

3151 CLASS STRINGS

A practical study of the string instruments of the orchestra with emphasis on bowing techniques, articulation, performance and general pedagogical principles. This course is normally offered in the fall semester of even numbered years.

3213 PERSPECTIVES IN WORLD MUSIC

The goal of this course is to enable the student to become an active listener and observer of music from many different cultures. Particular emphasis will be placed on understanding how non-Western music traditions compare with and contrast to Western music traditions. It is the intention of this course to expand the student's awareness of the power of music, both as a human expression and a reflection of culture. The student will identify shaping trends and influences, the hybridization of multiple music cultures, and will examine the concept of "globalization" as it might apply to music. In order to accomplish course goals, students will learn how to listen to music in an active and conscious way. This will require the identification and analysis of the elements of music at work in each musical example we listen to (these include melody, rhythm, harmony, form, and timbre.) This course is normally offered every semester.

Note: MUSC-2211 and MUSC-2212 must be completed before attempting the following courses unless approval is received from the department chair.

3323 MUSIC HISTORY I: ANCIENT MUSIC THROUGH THE RENAISSANCE

Prerequisite: For music majors; others by permission. An introduction to ancient non-Western music and to music from the beginnings of Western civilization through the Renaissance period. The course begins with a brief overview of Western and non-Western music through all time periods, along with a primer for strengthening listening skills. The course features style analysis—visual and aural—of representative compositions and analysis of the relationship of music to socio-cultural background. This course is normally offered every third semester.

3333 MUSIC HISTORY II: BAROQUE AND CLASSICAL MUSIC

Prerequisite: For music majors; others by permission. Continuation of MUSC-3323. An overview of Western (and selected non-Western) music from the early Baroque through the Classical era (approximately 1600-1820). The course features style analysis—visual and aural—of representative compositions and analysis of the relationship of music to socio-cultural background. This course is normally offered every third semester.

3343 MUSIC HISTORY III: ROMANTIC AND CONTEMPORARY MUSIC

Prerequisite: For music majors; others by permission. Continuation of MUSC 3333. An overview of Western (and selected non-Western) music from the early Romantic period (approximately 1820) up to the present day. The course features style analysis—visual and aural—of representative compositions and analysis of the relationship of music to socio-cultural background. This course is normally offered every third semester.

3352 LEADING MUSIC IN WORSHIP

This course prepares the student to lead singing in worship. The curriculum includes the fundamentals of song leading with a focus on the permeation of scripture in song. The course will investigate Biblical references about music, study application of theology in music, and gather songs and hymns to support various scriptures and themes for worship. The course is normally offered in the spring of odd numbered years.

3432 MUSIC TECHNOLOGY

This course addresses the appropriate use and adaptation of technology in music industry and in the classroom for music education purposes. The course develops competencies in the operation and effective utilization of equipment, electronic hardware, and materials commonly used in the music industry and by music educators. It is the goal of this course that each student, upon successful completion, has a working knowledge of MIDI, notation technology, computer software, and the ability to understand and use equipment while relying on the owner's manual for specifics regarding particular controllers or programs. To reach this goal, each student must successfully accomplish the objectives described below. Accomplishment will be measured by assignments as indicated in the course outline. It is the goal of this course to equip the student with current technology on MAC laptops.

3452 VOCAL PEDAGOGY

Prerequisite: For vocal majors and minors with Junior or Senior standing; others by permission. A course for those wanting to teach voice privately and those who will teach group vocal technique as choral directors. Emphasis is given to the science of vocal production: phonation, respiration, and resonance. This course is normally offered in the spring semester of even numbered years.

3462 PIANO PEDAGOGY I

Topics will include the philosophy and benefits of piano instruction, discussion of teaching styles and learning styles, methods and materials for teaching early level students, the business aspects of the independent studio, developing piano technique, and preparing students for contests and recitals. The student will plan and teach segments of group lessons and individual lessons with pre-college students. Lecture – 2 hours; Laboratory – 1 hour. This course is normally offered in the spring semester of even numbered years.

3561 PIANO PEDAGOGY II

A survey of additional methods and literature for the elementary and intermediate levels of piano instruction. Observations of student contests and performances are required. This course is offered as needed.

4001 SENIOR RECITAL

Solo recital performance in major performance area. To enroll, students must have achieved a satisfactory level of performance skill as specified in published departmental materials. This course is normally offered every semester.

4011 SENIOR PROJECT

Senior music majors may submit to the music faculty a proposal for a capstone project that will focus on performance, research, composition, and/or teaching. Additional guidelines are published in the Music Department Handbook. This course is normally offered every semester.

4013 AUDIO FOR GAMING

The purpose of the course is to expose the student to audio knowledge and experience pertaining to game audio design. Audio for Gaming introduces the student to sound engineering, music scoring, recording, and editing particular to games. Subject matter covered in this course will prepare the student for a career in the gaming industry. This course will be offered annually during the fall semester.

4212 CHORAL CONDUCTING I

Basic conducting skills, beat patterns, cueing and vocal score preparation, interpretation, nonverbal communication and rehearsal techniques. Includes choral conducting experience. This course is normally offered in the spring semester of even numbered years.

4222 CHORAL CONDUCTING II

Emphasis on rehearsal techniques, group dynamics and discipline, etc., involving conducting labs with music students as performers. An introduction to Renaissance, Baroque, Classical, Romantic, and Twentieth Century performance practice. This course is normally offered in the fall semester of even numbered years.

4312 INSTRUMENTAL CONDUCTING I

Basic conducting skills, beat patterns, cueing and instrumental score preparation, interpretation, nonverbal communication, and rehearsal techniques. Includes instrumental conducting experience with classmates as performers. This course is normally offered in the fall semester of even numbered years.

4322 INSTRUMENTAL CONDUCTING II

Emphasis on score study, rehearsal techniques, group dynamics, etc., involving conducting labs with music students as performers. This course is normally offered in the spring semester of odd numbered years.

4411 PIANO LITERATURE

A survey course to cover standard keyboard repertoire from 1700 to the present. This music elective may be taken as an independent study or in a class if enrollment is sufficient. Considerable emphasis will be on listening to piano music from the different periods of music history and discussing stylistic characteristics. This course is offered as needed.

NURSING (NURS)

1011 INTRODUCTION TO NURSING

A study of nursing's professional scope and evolution over time. Emphasis is placed on legal and ethical standards of practice, patient rights and protections, health outcomes across populations, and the complex healthcare system. Students will reflect on their initial perspective and identity as a professional nurse. Lecture – 1 hour.

2003 HEALTH ASSESSMENT

Prerequisite: BIOL-1013. Corequisite: BIOL-2523. This course applies nursing knowledge to assess the client systematically as a foundation to nursing care. Students will demonstrate assessment of the client's physical, psychological, social, and spiritual components. The student will practice and demonstrate the skills of interviewing, inspection, palpation, and auscultation to promote client outcomes. Competency in selected assessment skills will be a requirement in the laboratory setting. Lecture – 2 hours; Clinical – 1 hour.

2013 FUNDAMENTALS OF NURSING

Prerequisites: BIOL-1013 and BIOL-2523. Corequisite: BIOL-2623, CHEM-1104, NURS-2003. This course introduces nursing principles that form the basis of safe, quality nursing practice. Emphasis is placed on using the nursing process to induce critical thinking and clinical decision making. The student will understand theoretical foundations for holistic care, therapeutic communication, patient education, and evidence-based practice. Competency in selected clinical skills will be a requirement in the laboratory setting. Lecture – 2 hours; Clinical – 1 hour.

2033 PATHOPHYSIOLOGY AND PHARMACOLOGY I

Prerequisites: BIOL-1013, BIOL-2523 and CHEM-1104 Corequisite: BIOL-2623, NURS-2013, NURS-2033. This course is part one of a two-part comprehensive study of Pathophysiology and Pharmacology. The focus is on pathological responses to disease, stress, genetics, and environmental changes within the body. In addition, this course covers expected therapeutic outcomes utilizing pharmacological principles in collaboration with the interprofessional team. The nursing process is applied to pharmacology in relation to clients' developmental levels, cultural practices and health habits across the lifespan. Lecture – 3 hours.

3013 PATHOPHYSIOLOGY AND PHARMACOLOGY II

Prerequisites: Admission to the nursing program and all prerequisites completed. Corequisite: NURS-3014 and NURS-3015. This course is part two of a two-part comprehensive study of pathophysiology and pharmacology. This course discusses pathological responses to disease, stress, genetics, and environmental changes within the body. In addition, this course covers expected therapeutic outcomes utilizing pharmacological principles in collaboration with the interprofessional team. The nursing process is applied to pharmacology in relation to clients' developmental levels, cultural practices and health habits across the lifespan. Lecture – 3 hours.

3014 MENTAL HEALTH NURSING

Prerequisites: Admission to the nursing program and all prerequisites completed. Corequisites: NURS-3013 and NURS-3015. A course introducing the student to basic mental health nursing content as applied to individuals, families, and community groups. Through the application of the nursing process, students learn to provide person-centered care while implementing complex therapeutic nursing interventions for a variety of mental health disorders. Continued development of communication skills, professionalism, interprofessional collaboration, teaching/learning principles, ethical, legal and economic issues are incorporated throughout the course. Lecture – 2.5 hours; Clinical – 1.5 hours.

3015 ADULT NURSING I

Prerequisites: Admission to the nursing program and all prerequisites completed. Corequisites: NURS-3013 and NURS-3014. This course focuses on caring for adult patients experiencing acute and chronic health problems in a variety of healthcare settings. Through application of the nursing process and use of clinical judgement, students learn to provide therapeutic nursing interventions in a complex health system. Lecture – 3 hours; Clinical – 2 hours.

3024 MATERNAL-INFANT HEALTH NURSING

Prerequisites: Admission to the nursing program and all prerequisites completed. Corequisites: NURS 3025 and NURS-3034. A course focusing on concepts and implementation of professional nursing care for women in their childbearing years, newborns, and their families with emphasis on pregnancy, childbirth, and postpartum period. Emphasis is on the role of the professional nurse in health promotion of the childbearing family. Alterations in the childbearing process are addressed. Lecture – 2.5 hours; Clinical – 1.5 hours.

3025 ADULT NURSING II

Prerequisites: Admission to the nursing program and all prerequisite completed. Corequisites: NURS-3024 and NURS-3034. A course which builds upon the medical-surgical concepts learned in Adult Nursing I. This course focuses on caring for adult patients experiencing acute and chronic health problems in a variety of healthcare settings. Through application of the nursing process and use of clinical judgement, students learn to provide therapeutic nursing interventions in a complex health system. Lecture – 3 hours; Clinical – 2 hours.

3034 HEALTH CARE MISSIONS AND CHRISTIAN SERVICE

Prerequisites: Admission to the nursing program and all prerequisites completed. Corequisites: NURS-3024 and NURS-3034. This course focuses on the concept of nursing as a ministry, analyzing the role of Christian principles in culturally diverse healthcare settings. Participation in the delivery of health care to underserved populations, domestic or international, is an integral component. Lecture – 2.5 hours; Clinical – 1.5 hours.

4005 COMMUNITY HEALTH NURSING

Prerequisites: Admission to the nursing program and all prerequisites and junior-level nursing courses completed. Corequisites: NURS-4014 and NURS-4023. A course that explores the principles of community health nursing, utilizing the nursing process to provide care for individuals, families, and groups across a variety of community settings. Population health is a key focus, including disease prevention, health promotion, and the control of communicable diseases within the community and broader public health context. Lecture – 3 hours; Clinical – 2 hours.

4012 CAPSTONE IN NURSING

Prerequisites: Admission to the nursing program and all prerequisites and junior-level courses completed. Corequisites: NURS-2024 and NURS-4025. This course involves a thorough review of concepts required for licensure and entry into the practice of professional nursing. The course completes integration and advanced application of nursing concepts to enhance critical thinking and test-taking skills. Clinical Judgement and decision-making abilities will be assessed through a variety of tools that simulation the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Lecture – 2 hours.

4014 CHILD AND FAMILY HEALTH NURSING

Prerequisites: Admission to the nursing program and all prerequisites and junior-level courses completed. Corequisites: NURS-4005 and NURS-4023. This course focuses on developing the essential knowledge, skills, and attitudes necessary for the safe and effective nursing care of children. Students will gain an understanding of child growth and development, common pediatric conditions, and family-centered care principles. Through application of the nursing process and use of clinical judgement students will compare and contrast childhood diseases. Lecture – 2.5 hours; Clinical – 1.5 hours.

4023 ISSUES AND TRENDS IN NURSING

Prerequisites: Admission to the nursing program and all prerequisites and junior-level courses completed. Corequisite: NURS-4005 and NURS-4014. This course provides students the opportunity to reflect on their ability to transition into the nursing profession. Current healthcare issues and trends and their impact on the nursing profession are examined. Students will analyze how the use of technology combines nursing knowledge and information to manage health data and improve patient care and outcomes. Lecture – 3 hours.

4024 LEADERSHIP AND MANAGEMENT IN NURSING

Prerequisites: Admission to the nursing program and all prerequisites and junior-level courses completed. Corequisites: NURS-4012 and NURS-4025. This course integrates leadership and management principles related to nursing practice to prepare for the transition from student to graduate nurse. Students will combine and synthesize knowledge and skill through a precepted clinical experience. Lecture – 2 hours; Clinical – 2 hours.

4025 ADULT NURSING III

Prerequisites: Admission to the nursing program and all prerequisites and junior-level courses completed. Corequisites: NURS-4012 and NURS-4024. A course which builds upon the medical-surgical concepts learned in Adult Nursing I and II. This course focuses on caring for high acuity clients experiencing acute and chronic health problems. Through application of the nursing process and use of clinical judgement, students learn to provide therapeutic nursing interventions to clients experiencing complex, multi-system health problems and life-threatening illness or injury. Lecture – 3 hours; Clinical – 2 hours.

4033 NURSING RESEARCH AND EVIDENCE BASED PRACTICE

Prerequisites: Admission to nursing program and all prerequisites and junior-level courses completed. Corequisites: NURS-4012, NURS-4024 and NURS-4025. Apply knowledge of theories and the research process to critically appraise published studies. Advocate for maintaining ethical and legal standards in conducting research and disseminating findings. Contribute to improved health outcomes by evaluating nursing interventions for consistency with research evidence and standards of nursing practice. Lecture – 3 hours.

PHYSICS (PHYS)

1114 COLLEGE PHYSICS I

Prerequisites: MATH-1223 with a grade of "C" or better. A study of classical and Newtonian mechanics, including kinematics, forces, energy and momentum conservation, rotation and equilibrium, as well as fluids, vibrations, wave motion, and thermodynamics. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

1214 COLLEGE PHYSICS II

Prerequisite: PHYS-1114 with a grade of "C" or better. Continuation of PHYS-1114, studying electricity and magnetism, light and optics, special relativity, and atomic and nuclear physics. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

2514 PHYSICS I

Prerequisite: MATH-2114 with a grade of "C" or better. A calculus-level treatment of classical mechanics; i.e., motion, force, work, energy, gravity, rotation, torque, elasticity, equilibrium, and thermodynamics. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

2614 PHYSICS II

Prerequisites: PHYS-2514 and MATH-2214 with a grade of "C" or better. A continuation of PHYS 2514, providing a calculus-level treatment of electricity, magnetism, alternating current, light and optics. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

3313 MODERN PHYSICS

Prerequisite: PHYS-2614 with grade of "C" or better. A study of special relativity, origins of quantum theory, Schrodinger equation, and applications to physical systems such as electrons, atoms, and molecules. Lecture – 3 hours. This course is offered as needed.

POLITICAL SCIENCE (POLS)

2113 AMERICAN POLITICS

Instruction in citizenship: American Politics is designed to facilitate students' civic engagement. Includes an understanding of science as applied to politics, the origins of the American Constitution, the major portions and components of the American Constitution, the major American political institutions both inside and outside of government and the peoples who give them life.

2213 INTRODUCTION TO GLOBAL POLITICS

A survey of why countries cooperate in maintaining national security and economic prosperity in a global economy, and how conflicts between countries threaten that security and prosperity. Students participate in several decision-making simulations that demonstrate the challenge of maintaining peace and security. The course is normally offered in the spring of even-numbered years.

2413 COMPARATIVE POLITICS

A survey of the major political systems, levels of government and intergovernmental relations, mass political behavior, and theoretical power relationships inside various regimes. It will involve an analysis of comparative political concepts with an emphasis on industrialized countries, not including the U.S. This course is normally offered in the spring semester of odd-numbered years.

2513 DATA ANALYSIS

Prerequisite: POLS-2113 or POLS-2213. Survey of methods and approaches to the study of politics and their underlying assumptions as they apply to the major concepts of the discipline. An introduction to political data sources, their strengths and weaknesses, and uses in research. The course is normally offered in the spring semester of odd numbered years. Same as POLS-2513.

3113 HISTORY OF WESTERN POLITICAL THOUGHT

Prerequisite: POLS-2113 or POLS-2213. The course of political thought in the West from Plato and Aristotle to Dewey, Freud, and Russell. This course is offered as needed.

3213 AMERICAN POLITICAL THOUGHT

Prerequisite: POLS-2113 or POLS-2213. A study of American political ideas, political thinkers, and the classic texts of American political thought from colonial times to the present in their historical context. Special attention will be given to the influence of Calvinism, the Enlightenment, Romanticism, Social Darwinism, pragmatism, Anti-Communism, postmodernism, and contemporary liberalism and conservatism. Same HIST-3213. This course is normally offered in the fall semester of even-numbered years.

3413 THE PRESIDENCY AND CONGRESS

Prerequisite: POLS-2113. A survey of the internal operation of the two major branches of the national government, especially in the context of foreign policy and making the national budget. A second major issue is the impact of partisanship on presidential-congressional relations and public policy. This course is normally offered in the spring semester of even-numbered years.

3513 INTERNATIONAL POLITICAL ECONOMY

Prerequisite: POLS-2213. A survey of the organizations and the institutions that govern international trade and finance, controversies involving free trade, tensions between developed and developing countries, and the linkages between global capitalism and war. This course is normally offered in the spring semester of even-numbered years.

3613 POLITICAL PARTIES AND INTEREST GROUPS

Prerequisite: POLS-2113. An examination of the role of political parties and interest groups as intermediary organizations that connect the public to policy makers. The first part of the course focuses upon political parties and elections, and the second part of the course examines lobbying, political action committees (PAC's), and the problem of political corruption. This course is normally offered in the fall semester of odd-numbered years.

3713 STATE AND LOCAL POLITICS

Prerequisite: POLS-2113. A survey of the local politics and policies that most people directly encounter in daily life. Students learn the basic institutional structures and municipal governments in the United States and explore local controversies involving education, land use, and economic development. Students implement different theories of local government in a computer simulation. This course is normally offered in the fall semester of even-numbered years.

3813 CONTEMPORARY POLITICAL IDEOLOGIES

This course is a study of the political patterns of today's world, explaining the instruments, functions, and theories intertwined in modern ideologies. Emphasis will be placed on the predominant theories of democracy, communism, and the aspects of an authoritarian regime. This course is normally offered in the fall semester of even-numbered years.

3913 MASS MEDIA AND POLITICS

Media in politics in the United States, with comparisons to mass media in other countries, especially contemporary forms of mass and social media. Emphasis given to mass and social media as instruments of political communication, opinion leadership, elections, and as tools of political influence and control. This course is normally offered every other spring semester.

4113 CONSTITUTIONAL LAW

Prerequisite: POLS-1213 or POLS-2113. A study of current public law and constitutional law court cases which acquaint the student with official interpretation of the Constitution and the lawmaking and judicial role of the Supreme Court. This course is normally offered in the spring semester of odd-numbered years.

4313 INTERNATIONAL LAW

Nature and principles of international law, with special emphasis on changing concepts and conflicting claims in the development of rules for the world community. This course is normally offered every other spring semester.

4713 POLITICAL RESEARCH SEMINAR

Prerequisite: POLS-2513. A capstone seminar giving political science majors the opportunity to further develop their research skills by delving into the world of political data analysis. Students will work closely with faculty to create, develop, and produce a significant research project in preparation for graduate school. This course is offered in the fall semester of even-numbered years.

4813 SELECTED TOPICS IN POLITICAL SCIENCE

The contents of this course vary based on the needs of students and the current central issues in political science. Course may be repeated. This course is offered as needed.

PSYCHOLOGY (PSYC)

1113 GENERAL PSYCHOLOGY I

An introduction to the fundamental aspects of modern scientific psychology. Included in the study are the history of psychology, methods used in the field, learning theory, motivation, emotion, and mental disorders. The student is stimulated to apply psychological principles to

life situations. This course is normally offered every semester.

1211 INTRODUCTORY SEMINAR IN PSYCHOLOGY

A course which introduces the psychology major to the field of psychology as a career. Major emphasis is placed on preparation for graduate school, taking the Graduate Record Exam (GRE) and the different career options within the field of psychology. Guest speakers are utilized. This course is normally offered in the spring semester.

2223 GENERAL PSYCHOLOGY II

Prerequisite: PSYC-1113. Second introductory class for the field of psychology. This course is primarily for majors or minors in psychology and includes units on social psychology, human learning, remembering and forgetting, testing, the brain, and psychological therapy. The course completes the student's preparation for upper-level psychology courses. This course is normally offered in the spring semester.

2323 DEATH, DYING AND BEREAVEMENT

Prerequisite: FMST-1113 or PSYC-2523. This course is designed to present various ways in which humans experience death, dying and bereavement. Conceptual frameworks and theories about death, dying and bereavement will be explored. Personal biases, assumptions, attitudes, and reactions to death, dying and bereavement will be examined. Further, competencies in sensitivity, awareness, and skills related to personal coping with death and grief, supporting others in their dealings with death and grief, and finding personal growth and meaning through encounters with death and grief will be increased. This course fulfills 1 of the Association of Child Life Professionals academic requirements. Same as FMST-2323.

2523 DEVELOPMENTAL PSYCHOLOGY

Prerequisites: PSYC-1113. An examination of typical physical, cognitive, and social development of individuals from conception through death. This course is meant to introduce students to a research, application, and faith-based view of the entire life course. Students will be asked to critically evaluate processes of development in context while considering their own biases, values, and experiences. This course is typically offered each semester.

3003 HUMAN SEXUALITY

Prerequisite: PSYC-1113. An introductory course including considerations of human sexual development. The course is intended to present a decision-making model with which individuals can make decisions and accept responsibility for their actions. Same as FMST-3523 This course is normally offered in the fall semester.

3113 INTRODUCTORY PSYCHOLOGICAL STATISTICS

Elementary statistics with social and behavioral applications. Same as SOCI-3113. This course is normally offered in the fall semester.

3213 ADVANCED PSYCHOLOGICAL STATISTICS

Prerequisite: PSYC-3113. An intermediate course exploring the application of more advanced statistical methods used in research in psychology and related fields. Emphasis will be placed on the major concepts of the methods and on the practical application of these statistics. Specific topics covered are factorial analysis of variance, including repeated measures design and post hoc analyses, linear and multiple regression, analysis of covariance and non-parametric statistics including chi-square and log linear analyses. This course is normally offered in the spring semester.

3313 ABNORMAL PSYCHOLOGY

Prerequisite: PSYC-1113. A study of the definition, diagnosis and treatment of abnormal behavior. This course is normally offered in the spring semester.

3413 SOCIAL PSYCHOLOGY

Prerequisite: PSYC-1113. A study of behavioral consequences of group and individual interaction. Same as SOCI-3413. This course is normally offered in the fall semester.

3613 ADOLESCENCE AND EARLY ADULTHOOD

Prerequisite: PSYC-1113. A study of the developmental process of adolescence and early adulthood. It will focus on biological, cognitive, and socio-emotional issues as they pertain to the ongoing changes in this time of the life cycle. Attention will be given to issues of gender, culture, family relationships, peer relationships, sexuality, and education. Special attention will also be given to issues that young adults face as they venture into collegiate life, career exploration, and new family roles. Same as FMST-3613. This course is normally offered in the fall semester of odd-numbered years.

3713 PERSONALITY

Prerequisite: PSYC-1113. Structure and dynamics of personality development. This course is normally offered in the spring semester.

3723 ADULT DEVELOPMENT AND AGING

A study to include physical and health factors in aging; psychological aspects of aging; marriage, family and community relationships of older persons; economic and vocational factors in aging; perspectives on death, dying and grief; aging and institutional care; aging and the law; and the future of social intervention, both public and private. Same as FMST-3723 and SOCI-3723. This course is normally offered in the spring semester of even-numbered years.

3813 THEORIES OF COUNSELING AND PSYCHOTHERAPY

Prerequisite: PSYC-1113. An introduction to the major theories of counseling and psychotherapy. Focus will be placed on understanding the theories of Freud, Adler, Jung, Rogers, Perls, Ellis, and Glasser, and on appreciating the complexity of helping others in a

counseling relationship. This course is normally offered in the spring semester of odd numbered years.

3913 PSYCHOLOGY OF CRIME

Prerequisite: PSYC-1113. Psychological aspects of criminal and antisocial behavior, including comparison of psychological and legal factors in criminal investigation and testimony. Same as SOCI-3523. This course is normally offered in the spring semester of odd numbered years.

3933 CYBERNETICS AND SYSTEMS THEORY

Prerequisite: PSYC-1113. An introduction to the major underlying theoretical foundations of family therapy. The course will explore the historical development of systems theory and cybernetics from its origins in the 1940s in the thinking of mathematicians, physicists, biologists and engineers to the pioneering work of Bateson and his colleagues in the late '50s and their application of cybernetics to the family. The course will cover the work of Murray Bowen. The basic concepts of systems theory will be discussed and contrasted with the more common Western, analytical approach that has dominated thinking in psychology since the time of Freud. Same as FMST-3933. This course is normally offered in the fall semester of odd numbered years.

4113 MOTIVATION AND EMOTION

Prerequisites: PSYC-2223 and PSYC-3013. Theoretical analysis of purposive behavior drives and motives as well as biological and social origins. This course is normally offered in the spring semester of even numbered years.

4213 PSYCHOLOGY OF LEARNING

Prerequisite: PSYC-1113. The study of experimental psychology in the learning situation. This course is normally offered in the fall semester of even numbered years.

4313 ORGANIZATIONAL BEHAVIOR

Prerequisite: PSYC-1113. Psychology of employee selection, training, proficiency evaluation, motivation, morale, and reaction to working conditions. Same as MGMT-4313 and SOCI-4313. This course is normally offered in the spring semester.

4323 INTRODUCTION TO MARITAL AND FAMILY THERAPY

Prerequisite: PSYC-1113. An introduction to the field of marital and family therapy. It will present the history of systems therapy, including the importance of systems theory to the continuing development of the discipline. Special emphasis will be placed on the current status of marital and family therapy including the importance of constructivist theories. The course will also present the major theories of marital and family therapy that have defined the field for the last 40 years. This will be a systemic, experiential, discussion-based class that will require active participation from each student. Same as FMST-4323. This course is normally offered in the spring semester of even numbered years.

4413 BIOLOGICAL PSYCHOLOGY

Prerequisite: PSYC-1113. A study of the nervous system and other physiological correlates of behavior. This course is normally offered in the fall semester of odd numbered years.

4423 DRUGS AND PSYCHOPHARMACOLOGY

Prerequisite: PSYC-1113. An advanced course in biological psychology, focusing on the effects of drugs on the human nervous system. It will explore drugs of abuse, emphasizing how these drugs work in the brain to produce their behavioral effects. Special attention will be given to the topic of addiction. The course will also focus on psychopharmacology, specifically the treatment of mental health disorders via the prescribing of psychoactive agents. The course will focus on the treatment of anxiety disorders, mood disorders, and psychotic disorders through medication. Attention will be given to how these drugs work in the brain. This course is normally offered in the fall semester of even numbered years.

4513 COGNITIVE PSYCHOLOGY

Prerequisite: PSYC-1113. A comprehensive review of basic cognitive phenomena including perception, attention, memory, and problem-solving. Emphasis is placed on the use of empirical research and results to evaluate the major theories of cognition. This course is normally offered in the spring semester of odd numbered years.

4613 INTRODUCTION TO PSYCHOLOGICAL TESTING

Prerequisite: PSYC-3113. An overview of the theory and content of evaluation instruments commonly used in fields of psychology to assess achievement, intelligence, special aptitudes, and personality. General principles of construction, validation, administration, scoring, and interpretation are covered along with brief descriptive overviews of widely used instruments. This course is normally offered in the spring semester of odd numbered years.

4623 EXPERIMENTAL PSYCHOLOGY

Prerequisite: PSYC-3113. Planning, executing, analyzing data, and writing up results of psychological research projects. Methods and problems encountered are explored. This course is normally offered in the fall semester.

4653 RESEARCH SEMINAR

Prerequisite: PSYC-4623. The capstone course in the psychology program and a follow-up to Experimental Psychology (PSYC-4623). Students will learn SPSS – the Statistical Package for the Social Sciences – and complete their own individual research project and paper, including the collection and analysis of data. The final goal will be making a presentation of their findings to the appropriate student convention. Much of the class will consist of individual instruction and laboratory work. Same as FMST-4653. This course is normally offered in the spring semester.

4713 HISTORY AND SYSTEMS IN PSYCHOLOGY

Prerequisite: PSYC-1113. A comprehensive study of the history of psychological thought beginning with philosophical foundations and continuing to the present. The course focuses on major contributions and systems with which they are associated. This course is normally offered in the fall semester of even numbered years.

4733 PROFESSIONAL, ETHICAL, AND LEGAL ISSUES

Prerequisite: Senior standing. A study of the contemporary ethical considerations, legal standards, and professional issues that influence the work of psychologists, counselors, and other mental health officials. Specific attention will be given to the Ethical Standards of the APA, ACA and AAMFT, as well as Oklahoma State Law governing the behavior of researchers and psychotherapists. The course will focus on specific ethical dilemmas throughout the class, including, among others, confidentiality, dual relationships, professional relationships, assessment, and research. Same as FMST- 4733. This course is normally offered in the fall semester of odd numbered years.

4810 PSYCHOLOGY SEMINAR

Prerequisite: PSYC-1113. Content varies. Course may be repeated. (1-4 hours, depending on course content.) This course is normally offered as needed.

4820 PRACTICUM IN PSYCHOLOGY I

A course designed to give advanced psychology students "hands on" experience in the field of psychology of interest to them. Students complete 60 hours of supervised volunteer work at a field site and meet one hour a week with a supervising instructor and other practicum students. Class time focuses on student experiences in a group discussion format. Possible practicum sites include schools and community social service agencies, along with opportunities for research. Enrollment by permission only. (1-3 hours) This course is normally offered in the spring semester.

4830 PRACTICUM IN PSYCHOLOGY II

Requirements are the same as Practicum I. Students have the option of continuing in the same practicum setting or switching to another site. (1-3 hours) This course is normally offered in the spring semester.

SOCIOLOGY (SOCI)

1113 INTRODUCTION TO SOCIOLOGY

A survey of the following areas: society and culture, personality, social processes, human collectivities, population and communities, social institutions, and social change. This course is normally offered as needed.

2423 PARENT-CHILD RELATIONS

Opportunities, responsibilities, and problems faced by parents in guiding the development of children, emphasizing recent research in the area of parent-child relationships. Same as FMST-2423. This course is normally offered in the spring semester.

3033 JUVENILE JUSTICE AND DELINQUENCY

This course will cover the history and philosophy of juvenile justice in America and the impact of present societal reforms on the juvenile system. A wide array of theoretical positions will be discussed and debated (e.g.- social structure theories, social process theories, social reaction theories, etc.). The influence of the family, media, peers, socioeconomic status, drugs, gang affiliation, and schools will be covered in detail. An overview of the legal framework in which the juvenile justice system operates will highlight the differences in adult and juvenile law. Same as CRMJ-3033.

3113 SOCIAL STATISTICS

Elementary statistics with social and behavioral applications. Same as PSYC-3113. This course is normally offered in the fall semester.

3143 INTRODUCTION TO ASIAN CIVILIZATIONS

Prerequisite: Junior standing Introduces the major cultural themes of East, Southeast, and South Asia. Students will learn about the geographical, social, political, economic, cultural and religious features of the four major regions of Asia. Same as GMIN-3143. This course is offered as needed.

3413 SOCIAL PSYCHOLOGY

Prerequisite: PSYC-1113. Motivation and personality in social context. Same as PSYC-3413. This course is normally offered in the fall semester.

3513 WORLD RELIGIONS

Prerequisite: Junior standing A comparative study of the beliefs and practices, as well as the historical and sociological impact, of several of the world's principal religious traditions. These include indigenous traditions, Judaism, Islam, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Same as GMIN-3513. Non-textual. This course is normally offered every semester.

3613 CULTURAL ANTHROPOLOGY

A course that is designed with the intent of enhancing students' cultural intelligence, specifically, in terms of understanding cultural diversity and functioning more effectively in culturally diverse contexts. A significant component of the course is devoted to the study of the anthropology of religion. Same as MISS-3613. This course is normally offered every spring semester.

3713 INTRODUCTION TO CHRISTIAN ETHICS

A brief history of ethical theory in Western civilization and a survey of several modern secular ethical systems. These are contrasted with biblical principles and Christian systems during

discussions of specific topics such as sexuality, marriage, divorce, abortion, euthanasia, the relation of Christians to the state, wealth and poverty, war and peace, race relations, and social justice. Same as GMIN-2003. This course is normally offered in the fall semester of odd numbered years.

3723 GERONTOLOGY

A study to include physical and health factors in aging; psychological aspects of aging; marriage, family and community relationships of older persons; economic and vocational factors in aging; perspectives on death, dying and grief; aging and institutional care; aging and the law; and the future of social intervention, both public and private. Same as FMST-3723 and PSYC-3723. This course is normally offered every other spring.

4633 INTERCULTURAL COMMUNICATION I

Prerequisite: ENGL-1213. A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. SOCI-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. Same as COMM-4633, ENGL-4633 and GMIN-4633. This course is normally offered in the spring semester of odd-numbered years.

4643 INTERCULTURAL COMMUNICATION II

Prerequisite: ENGL-1213. A continuation of SOCI-4633, typically taught while a student is living in a foreign culture. Same as ENGL-4643 and GMIN-4643. This course is normally offered in the fall semester of odd numbered years.

SPANISH (SPAN)

1113 BASIC SPANISH I

Foundational principles and practice of speaking, understanding, reading, and writing Spanish and an introduction to Spanish culture for those with no background in Spanish. This course is normally offered every semester and summer.

1213 BASIC SPANISH II

Prerequisite: SPAN-1113, one year of Spanish in high school or the equivalent with permission of the instructor. Continuation of Basic Spanish I, enabling the student to read, write, understand, and respond in basic Spanish and to be aware of cultural differences. This course is normally offered every semester and summer.

2113 INTERMEDIATE SPANISH I

Prerequisite: SPAN-1213 or the equivalent with the permission of the instructor. A review of Spanish grammar with extensive conversation and cultural readings. This course is normally offered in the fall semester.

2123 INTERMEDIATE SPANISH II

Prerequisite: SPAN-2113 or the equivalent with the permission of the instructor. Guided development in spoken and written Spanish designed to increase vocabulary and improve usage. This course is normally offered in the spring semester.

3213 SPANISH LITERARY READINGS

Prerequisite: SPAN-2123 or the equivalent with the permission of the instructor. A survey of Spanish literature based on selected passages and short works. This course is normally offered as independent study and only by permission of the instructor.

3223 HISPANIC CIVILIZATION

Prerequisites: SPAN-2123 or the equivalent with the permission of the instructor. An overview of Spanish-speaking civilizations through geography, history, art, architecture, and music. The course features lecture, discussion, and composition in Spanish. This course is normally offered in the fall semester of odd numbered years.

3233 SPANISH FOR MEDICAL PROFESSIONALS

Prerequisite: SPAN-2123. A study of medical terminology in Spanish as well as Hispanic views of Western and non-Western medicine; a 10-hour practicum in a medical clinic or doctor's office is required. This course is normally offered in the summer term of odd-numbered years.

4213 STUDIES IN LATIN AMERICAN LITERATURE

Prerequisite: SPAN-2123. A study of the major authors, works and movements in Latin American literature. This course may be repeated as the content is changed. This course is normally offered in the spring semester of odd numbered years.

4413 ADVANCED SPANISH CONVERSATION

Prerequisite: SPAN-2123 or the equivalent with the permission of the instructor. An intense Spanish conversation course for students studying abroad in a Hispanic country. This course is normally offered as independent study and only by permission of the instructor.

4513 SPANISH LINGUISTICS

Prerequisite: SPAN-2123. A study of the history of the Spanish language, its phonemic, morphemic and syntactical features and its dialectal applications in Spain, Latin America, and the United States. This course is normally offered every other fall semester of even numbered years.

4613 ADVANCED CONVERSATION AND GRAMMAR

Prerequisite: SPAN-2123. An intense review of the grammatical concepts of Spanish with a focus on applying them in conversation and oral presentations. Pronunciation and vocabulary development will be emphasized as well. This course is normally offered every other spring semester of even numbered years.

4711 SPANISH IMMERSION LAB

Prerequisite: SPAN-2123, four years of high school Spanish or the equivalent with permission from the instructor. An intensive experience in Spanish conversation with discussions, in Spanish, about Hispanic culture. This course is normally offered every semester.

4713 METHODS OF TEFL II

Prerequisite: SPAN-2123. Survey of methods and philosophies of teaching English as a second language. Attention to Second Language Acquisition research makes this course appropriate for teaching other foreign languages besides English. This course is normally offered as needed.

4813 TOPICS IN HISPANIC LITERATURE I, II OR III

Three advanced, in-depth self-paced studies of a particular area of Spanish history literature offered on a rotating basis, one per summer.

SPECIAL EDUCATION (SPED)

4043 FOUNDATIONS OF SUPPORTING STUDENTS WITH DISABILITIES

This course offers a survey of issues relevant to teaching students with disabilities, including historical, legal, ethical, and philosophical considerations. Educators build the foundations for working with students with disabilities by exploring perspectives on disability, the role of the special educator, and current issues in special education. They articulate a personal philosophy of supporting students with disabilities and reflect on the impact of educator mindsets on students with disabilities. Educators also develop resources to support families with understanding special education laws and policies and communicate information about special education laws to colleagues. The course culminates with an opportunity for educators to apply their learning by analyzing a student's IEP and developing a lesson plan that both meets the needs of all students through universal design and individualizes support to accommodate a specific student.

4053 CHARACTERISTICS OF STUDENTS WITH DISABILITIES

In this course, educators examine the characteristics of students with disabilities in the categories specified in the Individuals with Disabilities Education Act. Educators first examine the characteristics of students with high-incidence disabilities to understand their cognitive, physical, social-emotional, and communication strengths and needs. Next, they research effective supports for students to support growth in these domains. Educators then research the characteristics of students with autism, emotional disabilities, and sensory needs and identify effective strategies for meaningful support and inclusion. Finally, educators examine the characteristics of students with a range of other low-incidence disabilities including physical impairment, traumatic brain injury, significant disabilities, multiple disabilities, and other health impairments. Educators research effective strategies to leverage the strengths and address the needs of students with low-incidence disabilities, with attention to transition and vocational planning, the use of augmentative and alternative communication devices, and integration into and out of specialized settings. Throughout the course, educators serve as a collaborative resource by communicating information about students with high- and low-incidence disabilities to colleagues and other stakeholders.

4063 METHODS FOR TEACHING STUDENTS WITH DISABILITIES

In this course, educators learn to plan and implement individualized instruction for students with disabilities in a variety of settings. Educators first plan instruction that meets the needs of all students in a general education classroom using universal design, and then implement and monitor strategies to help individual students access grade-level instruction and build independence. Educators support students with disabilities in literacy by implementing research-based specialized literacy instruction that addresses student needs in foundational skills, vocabulary, and comprehension. Educators also support students with disabilities in math by applying understanding of grade-level and prerequisite standards to identify student needs and by designing, implementing, and monitoring specialized math instruction.

4073 METHODS FOR TEACHINGS STUDENTS WITH DISABILITIES II

In this course, educators extend their ability to plan and implement individualized instruction for students with disabilities in a variety of settings. Educators first implement strategies for promoting active engagement and countering disproportionality in discipline through universal design and inclusive classroom practices. Educators then implement research-based strategies to provide additional behavioral and social-emotional support to students that require additional intervention. Educators also leverage assistive technology tools to support student independence and provide equitable access to learning opportunities.

4133 PROFESSIONALISM AND COLLABORATION FOR EDUCATORS WORKING WITH STUDENTS WITH DISABILITIES

In this course, educators develop the skills for collaborating professionally with other stakeholders to improve support and enhance opportunities for students with disabilities. Special educators create opportunities for asset-based collaboration with families, school-based staff, and other stakeholders. Educators then establish a co-teaching relationship to improve support for all students, including individualized support for students with disabilities. The course culminates with an opportunity for educators to advocate for the unique needs of a student with a disability by building a compelling case for change and leveraging systems and stakeholder relationships to promote student success.

SPORTS MANAGEMENT (SPMG)

3313 THE BUSINESS OF SPORTS

This course provides an overview of various sports industry segments, presenting fundamental principles, skills, and strategies for career success. It investigates how business principles are applied in sport organizations and explores how Christian theology can and should influence practitioners in the industry. Students are exposed to historical perspectives and examine current and future issues and trends. This course is normally offered in the spring semester.

3233 THEORY OF COACHING

This course studies coaching principles in various sports. Emphasis is placed on developing a coaching mission and philosophy as well as addressing common issues such as season and weekly planning, daily practice plans, and working with various individuals and groups. This course is normally offered in the fall semester.

3323 SPORTS ANALYTICS

This course will discuss the theory, development, and application of analytics in sports for purposes of in-game strategy, player performance, team management, and sport business operations, among many other topics. This course is normally offered in the spring semester.

3413 SPORTS MANAGEMENT AND LEADERSHIP

This course focuses on the roles and responsibilities of the sport manager and the application of foundational management and leadership theories in the sports context. Students gain an understanding of how to approach management as Christian leaders while learning how to effectively plan, organize, lead, and control a sports organization. Topics include strategic planning, organizational design, human resource management, decision making, negotiation, motivation, and leadership. This course is normally offered in the fall semester.

3613 SPORTS MARKETING AND PROMOTION

This course explores best practices for ethically and effectively marketing and promoting individuals, organizations, and events in the sports context. Students examine sales, marketing, branding, and communication concepts and principles, and apply them to the business of sports. Students explore creative elements of marketing and promotion, develop presentation skills, and learn the importance of customer relationship management, research, and analytics in formulating, executing, and evaluating strategies. This course is normally offered in the fall semester.

4113 SPORTS LAW

Prerequisite: Junior standing or Instructor approval. This course extends the understanding of business law concepts in an overview of legal issues affecting sports industries. Students will become familiar with agencies governing professional sport and various levels of amateur sport. Students also will investigate liability and contract law related to sports and explore collective bargaining agreements in relation to labor law. This course is normally offered in the fall semester.

4213 SPORT FACILITIES AND EVENTS

Prerequisite: Junior standing or Instructor approval. This course examines the concepts and principles involved in planning, designing, and operating sports facilities and the events held in those facilities. Students delve into financial, legal, and political aspects related to sports facilities and events, and are exposed to real-world examples through case studies and facility tours. This course is normally offered in the spring semester.

4313 SPORTS IN SOCIETY

Prerequisite: Junior standing or Instructor approval. This course explores and develops knowledge about the sociological impacts of sport across genders, ethnicities, religions, ages, and abilities, including the roles played by athletes, coaches, administrators, fans, and governing authorities. Students learn to identify and understand factors that shape sport in culture and understand how sport mirrors the society in which it exists. This course is normally offered in the spring semester.

4613 SPORTS FINANCE & OPERATIONS

Prerequisite: Senior standing or Instructor approval. This course draws together the concepts and tools studied in previous business and sports management courses. It uses an online simulation platform to give students hands-on practice analyzing authentic problems, developing strategies, and forming workable solutions related to finance, operations, and other elements of running a sports franchise. The course gives particular attention to how ethical principles and our Christian calling should influence the pursuit and practice of our sports management careers. This course is normally offered in the spring semester.

4993 SPORTS MANAGEMENT PRACTICUM

This course provides an opportunity for students to gain valuable insight into actual sports business operations in order to correlate academic experience with professional experience. The practicum consists of field work in an area of interest, providing learning experiences and career preparation through the acquisition of new skills and network connections. This course is offered as needed.

SPORT WELLNESS AND RECREATION (SPWR)

1301-1391 INTERCOLLEGIATE SPORTS

Instruction, practice, and participation in the intercollegiate sports sponsored by the university. These are activity courses. These courses are offered as needed.

4411 RECREATION WITH EXCEPTIONAL CHILDREN

This class allows students to work with physically and mentally disabled students. All work is done within a lab setting involving physical education and recreation skills. This course is an

activity course.

STUDENT DEVELOPMENT (SDEV)

0103 INTERMEDIATE ALGEBRA

Designed for students with a math ACT score of 22 or below in preparation for one of the three mathematics courses which satisfy the university's core curriculum requirements. This course reviews high school algebra including polynomials, equation solving and graphing. This course is graded with a (P) Passing or (NP) No Passing grading system. This course does not satisfy the core curriculum mathematics requirements. This course is normally offered every semester.

1101 FRESHMAN SEMINAR (TEL ONLY)

This course is an introduction to the expectations of college as well as learning strategies and skills proven to support a rewarding college experience. This course integrates cross-curricular concepts such as critical thinking, creative thinking, strategic thinking, design thinking, group problem solving, and effective study and learning techniques.

STUDY ABROAD (ABRD)

1101 STUDY ABROAD SEMINAR-EUROPE

This course is required for students participating in the Summer or Fall European Study Programs. Students conduct initial research on the countries they will visit as part of the program and complete the necessary pre-departure preparation. This course is normally offered in the spring semester

1201 STUDY ABROAD SEMINAR-ASIAN STUDIES

This course is required for students participating in the Asian Studies Program. Students conduct initial research on the countries they will visit as part of the program and complete the necessary pre-departure preparation. This course is normally offered in the spring semester.

2103 CROSS CULTURAL PERSPECTIVES

This course incorporates an interdisciplinary course to analyze the topics of identity and culture, while focusing on how these concepts interact within the context of a study abroad experience. Students will examine culture, history, politics, religion, art, and music to achieve a deeper understanding of civilization and culture through the lens of the study abroad location. For students on a study abroad trip.

2903 AESTHETICS

A field study of the great art, architecture, music, and drama of Study Abroad destinations. By permission only. This course is normally offered on a study abroad program.

2913 STUDIES IN EUROPEAN CIVILIZATION

A systematic study of Western civilization beginning with ancient Greece and ending with the emerging European community. Students visit major European capitals as part of the field experience on the European Studies Program. This course is normally offered every semester.

TECHNOLOGY (TECH)

3013 QUALITY AND RISK MANAGEMENT

Quality and Risk Management is a comprehensive course designed to provide students with an understanding of the principles, methodologies, and tools used to manage quality and mitigate risks in various organizational contexts. Through theoretical discussions, case studies, and practical exercises, students will learn how to develop and implement effective quality management systems, identify and assess risks, and devise strategies to minimize potential negative impacts. Topics include quality assurance, total quality management, risk assessment, and risk mitigation strategies.

3223 DATA VISUALIZATION

This course discusses methods of visualizing data sets to extract meaning using the Tableau software platform. Students gain hands-on experience working with data in team settings. This course is normally offered in the fall semester.

4013 PROCESS OPTIMIZATION

Process Optimization is an advanced course focusing on the principles, methodologies, and tools used to enhance efficiency, effectiveness, and productivity in organizational processes. Through a combination of theoretical discussions, case studies, simulations, and practical exercises, students will explore various optimization techniques, including iLinear Programming, Non-linear Programming, Integer Programming, Network Optimization, and Decision Tree Methods.

4023 PROJECT TECHNOLOGY MANAGEMENT

Project and Technology Management is an advanced course designed to explore the principles, methodologies, and best practices in managing technology projects effectively. Through a combination of theoretical discussions, case studies, and practical exercise, students will develop skills in project planning, execution, monitoring, and control within the context of technology-driven initiatives. Topics include project management frameworks, agile methodologies, technology integration, risk management, stakeholder communication, and leadership in technology projects.

UNIVERSITY (UNIV)

1102 / 1201 COMMUNICATION AND SUCCESS IN COLLEGE I & II

Communication and Success at College will help the student reach their potential at college by developing the life and communication skills necessary for success during their time at the university and beyond. There are no prerequisites for this course. As a part of this course, students will receive supplemental instruction in certain subject areas, meet with a peer mentor, and have the opportunity to receive tutoring in other courses.

1403 STUDY STRATEGIES

A 7-week course that covers topics necessary for individual student success including time management, growth mindset, metacognition, test preparation, course and faculty engagement, financial literacy, and communication skills. Study Strategies is open ONLY for students on Academic Alert or Probation (<2.0 GPA). Students may take the course only one time during their academic career. Ascend Scholars on academic probation after their first semester may enroll in UNIV-1201 to fulfill this requirement.

ACADEMIC CALENDAR

2025 FALL SEMESTER (15 WEEKS)

August 21	Thursday	Classes begin for the Fall 2025 semester
August 29	Friday	Last day for new enrollment and/or to add classes
September 1	Monday	Labor Day (OC closed)
September 19	Friday	Last day to drop a class without a "W" on the transcript
October 7	Thursday	Six weeks progress reports (grades) due at noon
October 16-17	Thursday-Friday	Fall Break (No Classes)
October 27	Monday	Seniors graduating in the next semester pre-enrollment begins
October 28	Tuesday	Senior pre-enrollment begins
October 29	Wednesday	Junior pre-enrollment begins
October 30	Thursday	Sophomore pre-enrollment begins
October 31	Friday	Freshman pre-enrollment begins
November 14	Friday	Last day to withdraw or drop a class with a "W" on the transcript
November 24-28	Monday-Friday	Thanksgiving Break (No Classes)
December 8-11	Monday-Thursday	Final Exam Week
December 12	Friday	Commencement
December 16	Tuesday	Final grades for Fall 2025 semester due at Noon

2025 FALL TERM I (7 WEEKS)

August 25	Monday	Fall Term I begins
August 29	Friday	Last day for Fall Term I new enrollment and/or to add a class
August 29	Friday	Last day to drop a Fall Term I class without a "W" on the transcript
October 3	Friday	Last day to withdraw or drop a Fall Term I class with a "W" on the transcript
October 10	Friday	Fall Term I ends
October 14	Tuesday	Final grades for Fall Term I due at Noon

2025 FALL TERM II (7 WEEKS)

October 20	Monday	Fall Term II begins
October 24	Friday	Last day for Fall Term II new enrollment and/or to add a class
October 24	Friday	Last day to drop a Fall Term II class without a "W" on the transcript
December 1	Monday	Last day to withdraw or drop a Fall Term II class with a "W" on the transcript
December 11	Thursday	Fall Term II ends
December 12	Tuesday	Commencement
December 16	Friday	Final grades for Fall Term II due at Noon

2025 WINTER SESSION (3 WEEKS)

December 15	Monday	Winter Session begins
December 15	Monday	Last day for Winter Session I new enrollment and/or to add a class
December 18	Thursday	Last day to drop a Winter Session I class without a "W" on the transcript
December 22-26	Monday-Friday	Christmas Break
January 6	Tuesday	Last day to withdraw or drop a Winter Session I class with a "W" on the transcript
January 10	Friday	Winter Term ends
January 14	Tuesday	Final grades for Winter Session I due at Noon

2026 SPRING SEMESTER (15 WEEKS)

January 11	Sunday	Classes begin for the Spring 2025 semester
January 16	Friday	Last day for new enrollment and/or to add classes
January 19	Monday	Martin Luther King Jr. Day (OC closed)
February 6	Friday	Last day to drop a class without a "W" on the transcript
February 24	Tuesday	Six weeks progress reports (grades) due at noon
March 15-20	Sunday-Friday	Spring Break (No Classes)
March 30	Monday	Seniors graduating in the next semester pre-enrollment begins
March 31	Tuesday	Senior pre-enrollment begins
April 1	Wednesday	Junior pre-enrollment begins
April 2	Thursday	Sophomore pre-enrollment begins
April 3	Friday	Freshman pre-enrollment begins
April 10	Friday	Last day to withdraw or drop a class with a "W" on the transcript
April 26-30	Sunday-Thursday	Final Exam Week
May 1	Friday	Commencement
May 5	Tuesday	Final grades for Spring 2024 semester due at Noon

2026 SPRING TERM I (7 WEEKS)

January 12	Monday	Classes begin for Spring Term I
January 16	Friday	Last day for Spring Term I new enrollment and/or to add a class
January 16	Friday	Last day to drop a Spring Term I class without a "W" on the transcript
January 19	Monday	Martin Luther King Jr. Day
February 20	Friday	Last day to withdraw or drop a Spring Term I class with a "W" on the transcript
February 27	Friday	Spring Term I ends
March 3	Tuesday	Final grades for Spring Term I due at Noon

2026 SPRING TERM II (7 WEEKS)

March 9	Monday	Classes begin for Spring Term II
March 13	Friday	Last day for Spring Term II new enrollment and/or to add a class
March 13	Friday	Last day to drop a Spring Term II class without a "W" on the transcript
March 15-20	Sunday-Friday	Spring Break (No Classes)
April 24	Friday	Last day to withdraw or drop a Spring Term II class with a "W" on the transcript
April 30	Thursday	Spring Term II ends
May 1	Friday	Commencement
May 5	Tuesday	Final grades for Spring Term II due at Noon

2026 SUMMER TERM I (7 WEEKS)

May 11	Monday	Classes begin for Summer Term I
May 15	Friday	Last day for Summer Term I new enrollment and/or to add a class
May 15	Friday	Last day to drop a Summer Term I class without a "W" on the transcript
May 25	Monday	Memorial Day (OC closed)
June 19	Friday	Last day to withdraw or drop a Summer Term I class with a "W" on the transcript
June 26	Friday	Summer Term I ends
June 30	Tuesday	Final grades for Summer Term I due at Noon

2026 SUMMER SESSION I (3 WEEKS)

May 4	Monday	Classes begin for Summer Session I
May 4	Monday	Last day for Summer Session I new enrollment and/or to add a class
May 6	Wednesday	Last day to drop a Summer Session I class without a "W" on the transcript
May 19	Tuesday	Last day to withdraw or drop a Summer Session I class with a "W" on the transcript
May 22	Friday	Summer Session I ends
May 26	Tuesday	Final grades for Summer Session I due at Noon

2026 SUMMER SESSION II (3 WEEKS)

May 25	Monday	Memorial Day
May 25	Monday	Classes begin for Summer Session II
May 25	Wednesday	Last day for Summer Session II new enrollment and/or to add a class
May 28	Thursday	Last day to drop a Summer Session II class without a "W" on the transcript
June 10	Wednesday	Last day to withdraw or drop a Summer Session II class with a "W" on the transcript
June 12	Friday	Summer Session II ends
June 16	Tuesday	Final grades for Summer Session II due at Noon

2026 SUMMER TERM II (7 WEEKS)

June 29	Monday	Classes begin for Summer Term II
July 6	Monday	Last day for Summer Term II new enrollment and/or to add a class
July 6	Monday	Last day to drop a Summer Term II class without a "W" on the transcript
August 7	Friday	Last day to withdraw or drop a Summer Term II class with a "W" on the transcript
August 14	Friday	Summer Term II ends
August 18	Tuesday	Final grades for Summer Term II due at Noon

2026 SUMMER SESSION III (3 WEEKS)

June 15	Monday	begin for Summer Session III
June 15	Monday	Last day for Summer Session III new enrollment and/or to add a class
June 17	Wednesday	Last day to drop a Summer Session III class without a "W" on the transcript
June 30	Tuesday	Last day to withdraw or drop a Summer Session III class with a "W" on the transcript
July 3	Saturday	Summer Session III ends
July 21	Tuesday	Final grades for Summer Session III due at Noon
	Classes	

2026 SUMMER SESSION IV (3 WEEKS)

July 6	Monday	Classes begin for Summer Session IV
July 6	Monday	Last day for Summer Session IV new enrollment and/or to add a class
July 8	Wednesday	Last day to drop a Summer Session IV class without a "W" on the transcript
July 21	Tuesday	Last day to withdraw or drop a Summer Session IV class with a "W" on the transcript
July 24	Friday	Summer Session IV ends
July 28	Tuesday	Final grades for Summer Session IV due at Noon

2026 SUMMER SESSION V (3 WEEKS)

July 27	Monday	Classes begin for Summer Session V
July 27	Monday	Last day for Summer Session V new enrollment and/or to add a class
July 29	Wednesday	Last day to drop a Summer Session V class without a "W" on the transcript
Aug 11	Tuesday	Last day to withdraw or drop a Summer Session V class with a "W" on the transcript
Aug 14	Friday	Summer Session V ends
Aug 18	Tuesday	Final grades for Summer Session V due at Noon