



OKLAHOMA CHRISTIAN UNIVERSITY



Pre COVID19

# **UNDERGRADUATE ACADEMIC CATALOG 2020-2021**

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## A MESSAGE FROM THE PRESIDENT

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Welcome!



I am thankful that you have decided to become part of the Oklahoma Christian University family! There is no better place to launch your career and lifelong service to the Kingdom.

You will find our Christian campus environment to be welcoming and friendly, a place you can proudly call home while you earn a highly respected academic degree. Everyone at OC – our outstanding faculty, dedicated staff, and your fellow students – is committed to ensuring that you have a wonderful, rewarding experience just like thousands of students before you.

OC is my home. And that's the experience we want you to have here. Home is where you learn, grow, connect with others, and take some risks. Home doesn't prepare you to stay there. It prepares you for life, to be able to go out into the world and succeed. And that's the experience we want you to have here. You will leave OC well prepared academically, socially, and spiritually for an effective life of service to your family, your profession, your community, and your church. And someday, when you long to return home, we want you to know that you'll always be welcomed at your alma mater.

You will, of course, get out of your experience at Oklahoma Christian exactly what you put into it. We encourage you to work hard. Our academic programs are rigorous. Your professors are well qualified and are here to help you achieve your academic objectives. They will go beyond the call of duty to ensure you succeed.

We hope you will also take advantage of the myriad of Oklahoma Christian offerings and activities. Whether you're bonding with fellow students in academic or social service clubs, supporting our excellent intercollegiate athletic teams, participating in intramural sports, enjoying regular Bible studies and working on mission and ministry campaigns through our Ethos spiritual life program, participating in professional internships throughout the Oklahoma City area, or studying and seeing the world while living at Das Millicanhaus, OC's Vienna, Austria campus, you will find these activities and others will enrich your OC experience and make you a more rounded student.

Again, welcome to Oklahoma Christian. Welcome Home!

Sincerely,

John deSteiguer

## A MESSAGE FROM THE CHIEF ACADEMIC OFFICER

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Welcome to Oklahoma Christian University, a place where the invitation is open for you to call it home and to grow with us as we learn together. Colleges and universities are recognized as places to explore and query some of the most profound questions, and at OC we face these questions head on. We find ourselves faced with unprecedented challenges and opportunities and it demands that we think intentionally and strategically about how best to educate the young minds and hearts to positively impact our communities. We are all called to lives that will serve the world in which we live and to address important issues that include public health, economic challenges and social structures that can create instability in our culture. Our educational institution is founded on the recognition that a Christian worldview must be central to how we educate, whether in the laboratory, serving in missions around the world or pursuing a degree that will allow you to serve in any profession you choose. I can assure you that our faculty will challenge you to think critically, question deeply and pursue truth with passion as you learn with us.

Thank you for choosing to call OC home. Welcome!

Jeff McCormack, Ph.D.

## BOARD OF TRUSTEES

<b>Mark A. Brewer, Ph.D.</b> Chair Arcadia, Oklahoma	<b>Alfred Branch, M.B.A.</b> Oklahoma City, Oklahoma	<b>Grant W. Newton, Ph.D.</b> Medford, Oregon	<b>Raymond L. Vaughn, Jr., J.D.</b> Mounds, Oklahoma
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	<b>Dena Lovett</b> Edmond, Oklahoma	<b>Michelle Stephens, J.D.</b> Weatherford, Oklahoma	
	<b>Lynn V. Mitchell, M.D.</b> Oklahoma City, Oklahoma	<b>Michelle Tucker, M.D.</b> Plano, Texas	

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<b>James L. Ketcherside</b> McPherson, Kansas	<b>Millie Prince Roberson</b> Norman, Oklahoma	<b>Wayne L. Warren</b> Broken Bow, Oklahoma

## OFFICERS

<b>John deSteiguer (2002)</b> President B.A., Northeastern State University J.D., Pepperdine University	<b>Alan Phillips (2012)</b> Chief Advancement Officer B.S., Oklahoma Christian University	<b>Terry Winn (2014)</b> Chief Human Resources Officer B.A., Northwestern Oklahoma State University M.A., University of Oklahoma
<b>John Hermes (1993)</b> Chief Operating Officer B.S., Oklahoma Christian University M.S., Oklahoma State University	<b>Neil Arter (1990)</b> Chief Student Life Officer Dean of Students B.S., Oklahoma Christian University M.B.A., Oklahoma Christian University	<b>Jennifer Ray, CPA (2016)</b> Chief Financial Officer B.B.A., Oklahoma Christian University
<b>Jeffrey McCormack (2014)</b> Chief Academic Officer Lawson Professor of Microbiology and Immunology B.S., Oklahoma Christian University M.S., University of Oklahoma Health Sciences Center Ph.D., University of Oklahoma Health Sciences Center	<b>Jeff Dimick (2018)</b> Chief Recruitment Officer B.S., Oklahoma Christian University M.S., Oklahoma State University	<b>Byron Newberry (2001)</b> Associate Chief Academic Officer Chair, Division and School of Engineering and Computer Science Chair, Graduate School of Engineering Professor of Mechanical Engineering B.S.M.E., Oklahoma Christian University M.S.M.E., University of Michigan Ph.D., University of Michigan
<b>Risa Forrester (1996)</b> Chief Communications Officer B.A., Oklahoma Christian University M.Ed., Azusa Pacific University	<b>Stephen Eck (2000)</b> Chief Legal Officer A.A., York College B.A., Oklahoma Christian University M.B.A., MidAmerica Nazarene University J.D., Oklahoma City University	



## FACULTY

### Cami Agan (1997)

Professor of English  
B.A., Oklahoma Christian University  
M.A., Boston College  
Ph.D., Duquesne University

### Sara Alcon (2015)

Assistant Professor of Biology  
B.S., Oklahoma Christian University  
Ph.D., University of New Mexico

### Christopher Austin (2008)

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

### Jim Baird (1992)

Director, Honors Program  
Distinguished Professor of Bible and Philosophy  
B.A., Oklahoma Christian University  
M.Div., Harding Graduate School  
D.Phil. (Oxon.), Oxford University  
2001 Gaylord Chair of Distinguished Teaching

### Alden Bass (2017)

Assistant Professor of Bible  
B.A., Yale University  
M.T.S., Vanderbilt Divinity School  
Ph.D., St. Louis University

### Amy Beauchamp (2005)

Program Chair, Art and Design  
Assistant Professor of Art and Design  
B.S., Oklahoma Christian University  
M.F.A., University of Central Oklahoma

### Kenneth S. Bell (2011)

Assistant Professor of Electrical and Computer Engineering  
B.S., University of Connecticut  
M.S., University of Connecticut

### Jeffrey Bigelow (1994)

Program 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

### Sid Brown (2018)

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

### Jennifer Bryan (2003)

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

### Bradley J. Buxton (2014)

Assistant Professor of Mechanical Engineering  
B.S., Embry-Riddle Aeronautical University  
M.S., Troy State University  
M.S., Air Force Institute of Technology

### Robert Carpenter (1998)

Professor of Missions  
B.A., Princeton University  
M.A., Stanford University  
M.A., Abilene Christian University  
Ph.D., University of California at Santa Barbara

### Allison Cassady (2011)

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

### David Cassel (1995)

Professor of Mechanical Engineering  
B.S.M.E., Louisiana Tech University  
M.S.M.E., Louisiana Tech University  
Ph.D., Georgia Institute of Technology

### Dudley Chancey (1998)

Professor of Youth Ministry  
A.A., Albany Junior College  
B.S., Tennessee Technological University  
M.S., Abilene Christian University  
Ph.D., University of Tennessee

### Curtis Coleman (2018)

Assistant Professor of Computer Science  
B.S., California State University  
M.S., Norwich University  
Ph.D. candidate, Nova Southeastern University

### J.J. Compton (2002)

Associate Professor of Library Science  
B.A., Oklahoma Christian University  
M.L.I.S., University of Oklahoma  
Ph.D. candidate, Swansea University

### David Crismon (1991)

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

### Donald V. Drew (2000)

Professor of Business  
B.A., Oklahoma Christian University  
M.H.R., University of Oklahoma  
Ed.D., Oklahoma State University

### Kelli Dudley (2013)

Associate Professor of Education  
B.S., Oklahoma State University  
M.S.Ed., University of Central Oklahoma  
Ph.D., University of Oklahoma

### James Dvorak (2008)

Chair, Division of Bible  
Chair, Graduate School of Theology  
Professor of Bible  
B.A., Oklahoma Christian University  
M.Div., Trinity Evangelical Divinity School  
M.A., George Washington University  
Ph.D., McMaster Divinity College

### Scott Filleman (2019)

Assistant Professor of Music  
B.M.E., Oklahoma Christian University  
M.Ed., University of Central Oklahoma  
M.M., University of Central Oklahoma

### John Fletcher (1987)

Chair, Division of Fine and Performing Arts  
Professor of Music  
B.A., Oklahoma Christian University  
M.M., University of Missouri-Kansas City  
D.M.A., University of Oklahoma  
2010 Gaylord Chair of Distinguished Teaching

### Joanie Gieger (2014)

Assistant Professor of Education  
B.S.E., Oklahoma Christian University  
M.S.Ed., University of Central Oklahoma  
Ph.D. University of Oklahoma

### Bill Goad (1979)

Professor of Business  
B.S., Oklahoma Christian University  
M.B.A., Abilene Christian University  
Ed.D., Oklahoma State University

### Jennifer Gray (2015)

Dean, College of Professional Studies  
Professor of Nursing  
B.S.N., Central State University  
M.S.N., University of Texas at Arlington  
Ph.D., Texas Women's University

### Christy Hallock (2013)

Assistant Professor of Nursing  
B.S.N., Oklahoma Christian University  
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

### Dawn Hemphill (2018)

Assistant Professor of Nursing  
B.S.N., University of Central Oklahoma  
M.S.N., Regis University

### Shawna Hood (2007)

Program Chair, School of Nursing  
Assistant Professor of Nursing  
B.S., University of Central Oklahoma  
M.S., Midwestern State University

### Paul Howard (2002)

Professor of Mathematics  
B.S., University of Idaho  
M.S., University of Idaho  
Ph.D., University of Oklahoma

### Paul House (2017)

Associate Professor of Exercise Science  
B.S., Oklahoma Christian University  
M.S., University of Oklahoma  
Ph.D., Oklahoma State University

### Jonathan Hunt (2017)

Assistant Professor of Biology  
B.S., Oklahoma Christian University  
M.S., University of Oklahoma Health Sciences Center  
Ph.D., University of Oklahoma Health Sciences Center

### Kenneth Johnson (2002)

Chair, Graduate School of Business  
Associate Professor of Accounting  
B.S., Oklahoma State University  
M.B.A., University of Central Oklahoma  
D.B.A., Argosy University

### Heath Jones (2001)

Program Chair, Music  
Professor of Music  
B.M.E., Oklahoma Christian University  
M.M., Baylor University  
Ph.D., University of Oklahoma

### David Jurney (2012)

Instructor of Communication  
B.A., Oklahoma Christian University  
M.B.A., Oklahoma Christian University

### Elaine Kelly (1992)

Associate Professor of Accounting  
B.S., East Central University  
M.B.A., University of Central Oklahoma  
1999 Gaylord Chair of Distinguished Teaching  
2006 JJ Millican Chair of Accounting

### Bobby L. Kern (2012)

Associate Professor of Psychology and Family Science  
B.S., Oklahoma Christian University  
M.A., Oklahoma Christian University  
Ph.D., Oklahoma State University

### Ellie Kirkner (2019)

Instructor of Gaming and Animation  
B.F.A., Oklahoma Christian University

### Sada J. Knowles (2020)

Dean, New College  
Assistant Professor  
B.S. Oklahoma Christian University  
M.S. Oklahoma State University  
Ph.D., Oklahoma State University

- Chip Kooi (2001)**  
Professor of Bible  
B.A., Oklahoma Christian University  
M.A., Oklahoma Christian University  
Ph.D., Baylor University
- Rhea Ann Lee (2014)**  
Assistant Professor of Nursing  
B.S.N., University of Central Oklahoma  
M.S.N., Oklahoma Baptist University
- Donald Leftwich (1979)**  
Associate Professor of Mathematics and Computer Science  
B.S., Oklahoma Christian University  
M.A., University of Oklahoma
- Lindsey Long (2017)**  
Assistant Professor of Biology  
B.S., Oklahoma Christian University  
Ph.D., Colorado State University
- David Lowry (2005)**  
Professor of Communication  
B.S., Abilene Christian University  
M.S., Abilene Christian University  
Ph.D., University of North Texas
- William Luttrell (2005)**  
Professor of Chemistry  
B.S., University of Louisville  
M.S., Old Dominion University  
Ph.D., Eastern Virginia Medical School and Old Dominion University
- Steven P. Maher (2002)**  
Associate Professor of Electrical and Computer Engineering  
B.S.E.E., University of Kansas  
M.S.E.E., University of Kansas
- Darin Martin (2005)**  
Director, School of Education  
Professor of Education  
B.A., Harding University  
M.Ed., Harding University  
Ed.D., Oklahoma State University
- Jeffrey McCormack (2014)**  
Chief Academic Officer  
Lawson Professor of Microbiology and Immunology  
B.S., Oklahoma Christian University  
M.S., University of Oklahoma Health Sciences Center  
Ph.D., University of Oklahoma Health Sciences Center
- Matt McCook (2002)**  
Professor of History  
B.S., Abilene Christian University  
M.A., Sam Houston State University  
Ph.D., Florida State University
- Courtney McCoy (2014)**  
Assistant Professor of Nursing  
B.S.N., Oklahoma Christian University  
M.S.N., University of Oklahoma
- Wes McKinzie (2017)**  
Instructor of Business  
B.S., Oklahoma Christian University  
M.A., University of Oklahoma
- Lynn McMillon (1966)**  
Distinguished Professor of Bible  
B.A., Oklahoma Christian University  
M.A., Harding Graduate School of Religion  
M.Th., Harding Graduate School of Religion  
Ph.D., Baylor University  
1985 Gaylord Chair of Distinguished Teaching
- Kimberly Merritt (2007)**  
Professor of Business  
B.S., Oklahoma State University  
M.B.A., Cameron University  
D.B.A., Argosy University
- Al Mikell (2006)**  
Professor of Biology  
B.S., University of Alabama  
B.S., University of Alabama at Birmingham  
M.S., Auburn University  
Ph.D., Virginia Tech University
- Jonathan Miller (2019)**  
Associate Professor of Psychology and Family Science  
B.S., David Lipscomb University  
M.S., Abilene Christian University  
Ph.D., Bowling Green State University
- Travis Montgomery (2015)**  
Associate Professor of English  
B.A., Oklahoma Christian University  
M.A., University of Mississippi  
Ph.D., University of Mississippi
- Uwe Muench (2020)**  
Visiting Assistant Professor of Physics  
University of Cologne  
Ph.D., University of Missouri, Columbia
- Monica Muza (2005)**  
Instructor of Mathematics  
B.S.E., University of Central Oklahoma  
M.S., University of Central Oklahoma  
M.B.A., Oklahoma Christian University
- Gail Nash (1998)**  
Chair, Division of Language, Literature and Communication  
Professor of English  
B.A., Oklahoma Christian University  
M.A., Oklahoma State University  
Ph.D., Oklahoma State University  
2013 Gaylord Chair of Distinguished Teaching
- Byron Newberry (2001)**  
Associate Chief Academic Officer  
Chair, Division and School of Engineering and Computer Science  
Chair, Graduate School of Engineering  
Professor of Mechanical Engineering  
B.S.M.E., Oklahoma Christian University  
M.S.M.E., University of Michigan  
Ph.D., University of Michigan
- Ryan Newell (1992)**  
Professor of Psychology  
A.A., Ohio Valley College  
B.S., Oklahoma Christian University  
M.Ed., University of Central Oklahoma  
Ph.D., University of Toledo
- Amanda Nichols (2008)**  
Program Chair, Division of Natural and Health Sciences  
Professor of Chemistry  
B.S., Oklahoma Christian University  
Ph.D., Oklahoma State University
- Robert Nix (2015)**  
Associate Professor of Computer Science  
B.S., Oklahoma Christian University  
M.S., The University of Texas at Dallas  
Ph.D., The University of Texas at Dallas
- David North (2015)**  
Program Chair, Computer Science  
Associate Professor of Computer Science  
B.S., Oklahoma Christian University  
M.S., University of Oklahoma
- Michael O'Keefe (1981)**  
Professor of Art and Design  
B.A., Harding University  
B.S., Harding University  
M.F.A., University of North Texas
- Becky O'Neal (2009)**  
Assistant Professor of Nursing  
B.S., University of Central Oklahoma  
M.S., University of Oklahoma
- Trey Orndorff (2018)**  
Program Chair, Behavioral and Social Sciences  
Associate Professor of Political Science  
B.S., Northern Kentucky University  
M.A., Miami University  
Ph.D., Miami University
- John Osborne (2000)**  
Director, International Programs  
Assistant Professor of Communication  
B.S., Oklahoma Christian University  
M.B.A., Oklahoma Christian University
- Lee Anne Paris (1998)**  
Dean of the Library and Instructional Support  
Professor of Library Science  
B.A., Vanderbilt University  
M.S., University of Oklahoma  
Ph.D., University of North Carolina
- Philip Patterson (1981)**  
Distinguished Professor of Communication  
Advisor, The Talon  
B.A., Lubbock Christian University  
M.A., Abilene Christian University  
Ph.D., University of Oklahoma  
1988 Gaylord Chair of Distinguished Teaching
- Savannah Phillips (2017)**  
Instructor of Nursing  
B.S.N., Oklahoma Christian University  
M.S.N., Fort Hays State University
- Kevin G. Plumlee (2012)**  
Program Chair, Mechanical Engineering  
Associate Professor of Mechanical Engineering  
B.S., Oklahoma Christian University  
M.S., Texas A&M University  
Ph.D., Texas A&M University
- Jillian Poyzer-Johnson (2020)**  
Assistant Professor of Accounting  
B.B.A., Oklahoma Christian University  
MAcc, University of Nebraska, Omaha
- Kyle R. Pullen (2012)**  
Professor of Music  
B.S., University of Houston  
M.S., University of Houston  
Ph.D., Claremont Graduate University
- Trevy Rauch (2016)**  
Instructor of Nursing  
B.S.N., University of Oklahoma Health Sciences Center  
M.S.N., University of Oklahoma Health Sciences Center
- Charles Rix (2011)**  
Dean, College of Humanities and Bible  
Associate Professor of Bible  
B.B.A., Abilene Christian University  
M.I.M., Thunderbird School of Global Management  
M.T.S., New Brunswick Theological Seminary  
M.Phil., Drew University  
Ph.D., Drew University
- Kerianne Roper (2004)**  
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
- Chris Rosser (2009)**  
Associate Professor of Library Science  
Theological Librarian  
B.S., Oklahoma Christian University  
M.L.I.S., University of Oklahoma  
M.Div., Oklahoma Christian University
- William W. Ryan (2001)**  
Professor of Engineering Sciences  
B.A., California State College  
M.A., Sam Houston State College  
Ph.D., University of Texas

**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)**

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

**Brian Simmons (2014)**

Program Chair, Communication  
 Professor of Communication and Honors  
 B.S., Oklahoma Christian College  
 M.A., Pepperdine University  
 Ph.D., Purdue University  
 2018 Gaylord Chair of Distinguished Teaching

**Jeffery Simmons (2008)**

Chair, Division and 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

**Burton Smith (2003)**

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

**Grant Testut (2011)**

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

**Skyler Thomas (2019)**

Assistant Professor of Gaming and Animation  
 B.F.A., Oklahoma Christian University  
 M.F.A., University of Central Oklahoma

**Dara Tinius (2009)**

Assistant Professor of Library Science  
 B.A., Oklahoma Christian University  
 M.L.S., University of Oklahoma

**Jacob Touchstone (2019)**

Instructor of Gaming and Animation  
 B.F.A., Oklahoma Christian University  
 M.F.A. candidate, 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

**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

**W. Joe Watson (1989)**

Professor of Electrical and Computer Engineering  
 B.S.E.E., Oklahoma State University  
 M.S.E.E., Oklahoma State University

**Debra Whiteman (2015)**

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

**Tamie Willis (1986)**

Director of the Library  
 Professor of Library Science  
 Periodical Research Librarian  
 B.S., West Texas State University  
 B.S.E., University of Central Oklahoma  
 M.L.S., University of Oklahoma+

**Tina Winn (2010)**

Chair, Division of Education and Behavioral and Social Sciences  
 Professor of Psychology  
 B.S., Oklahoma Christian University  
 M.Ed., Northwestern State University  
 Ed.D., Oklahoma State University



## OC AT A GLANCE

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Oklahoma Christian University is a higher learning community that transforms lives for Christian faith, scholarship, and service. 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 full-time faculty and a majority of students are members of the churches of Christ. The university enrolls almost 2,100 students.

## DEGREE PROGRAMS

---

Oklahoma Christian University offers degree programs in:

### ART & DESIGN

Art, Graphic Design, Gaming and Animation, Interior Architecture, Visual Art

### BIBLICAL STUDIES

Bible, Bible and Ministry, Missions, Youth Ministry, Children's Ministry Certificate

### BIOLOGY

Biology, Biology, Pre Medicine, Biological Education, Medical Laboratory Science, Exercise Science

### BUSINESS

Accounting, Business Administration, Finance, Management, Marketing Management, Sports Management

### CHEMISTRY

Biochemistry, Chemistry, Physical Science Education

### COMMUNICATION

Communication Studies, Journalism, , Public Communication and Leadership, Public Relations

### COMPUTER ENGINEERING

### COMPUTER SCIENCE

Artificial Intelligence, Computer Science, Computer Science with Business, Computer Science with Gaming and Animation, Data Science, Software Engineering

### CRIMINAL JUSTICE

### EDUCATION

Early Childhood, Elementary, Secondary

### ELECTRICAL ENGINEERING

### FAMILY SCIENCE

Family Science, Family Science/Human Development

### HISTORY & POLITICAL SCIENCE

History, History/Pre-Law, Political Science, Social Studies Education

### INTERDISCIPLINARY STUDIES

Interdisciplinary Studies

### LANGUAGE & LITERATURE

English, English Education, English/Pre-Law, English/Teaching English as a Foreign Language, Spanish, TEFL certificate

### MATHEMATICS

Mathematics, Mathematics with Actuarial Emphasis. Mathematics/Computer Science, Mathematics Education

### MECHANICAL ENGINEERING

### MUSIC

Instrumental Music, Music Education, Vocal Music

### NURSING

## POLITICAL SCIENCE

## PSYCHOLOGY

The university also offers seven graduate degrees: Master of Accountancy; Master of Arts in Christian Ministry; Master of Arts in Christianity and Culture, Master of Business Administration; Master of Divinity; Master of Science in Computer Science, Master of Science in Engineering; Master of Theological Studies. For information on OC's graduate programs, please visit [www.oc.edu/grad](http://www.oc.edu/grad).

## ACCREDITATION

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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](http://www.hlcommission.org) | [info@hlcommission.org](mailto:info@hlcommission.org)

## ADDITIONAL ACCREDITATIONS

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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](http://www.acbsp.org) | [info@acbsp.org](mailto:info@acbsp.org)  
The business programs are also members of the AACSB International – The Association to Advance Collegiate Schools of Business (AACSB).

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 National Council for Accreditation of Teacher Education (NCATE), [www.ncate.org](http://www.ncate.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 ST. STE. 400  
Washington, DC 20036  
Phone: 202.223.0077 | Fax: 202.296.6620  
[www.ncate.org](http://www.ncate.org) | [caep@caepnet.org](mailto: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 BFA 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](http://www.accreditit-id.org) | [info@accreditit-id.org](mailto: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](http://www.nasm.arts-accredit.org) | [info@arts-accredit.org](mailto:info@arts-accredit.org)

The BSN degree at OC is accredited by the Commission of Collegiate Nursing Education (CCNE).  
655 K. St. NW  
Washington, DC 20001  
Phone: 202.887.6791

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](mailto: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 coordinator is Ms. Lisa Herndon, at (405) 425-5555, 2501 E. Memorial Road, Edmond, Oklahoma 73013.

### CASCADE COLLEGE

In August 1994, OC opened Cascade College in Portland, Oregon. Cascade College was closed in May 2009. Oklahoma Christian University became the official repository for Cascade College, Columbia Christian College, Baker College, and Magic Valley Christian College. Academic records for these colleges may be acquired by requesting your transcript at [www.oc.edu/registrar](http://www.oc.edu/registrar).

This catalog contains official announcements of courses for the 2020-2021 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.

## PURPOSE/MISSION STATEMENT

Oklahoma Christian University is a higher learning community that transforms lives for Christian faith, scholarship, and service.

## CONVERGE

### AS A CHRISTIAN COMMUNITY OF LEARNING, WE SEEK THE FOLLOWING UNIVERSITY 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 world views 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 55 semester hours in the liberal arts; 43 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.

## ETHOS

Ethos is a Greek word meaning "the distinguishing character or guiding beliefs of a person, group or institution." Ethos is also the name of our spiritual formation program for OC students.

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.

Spiritual life is at the core of the OC experience. With our Ethos program, and accompanying mobile app designed to improve spiritual life, students can identify and develop their gifts and talents to grow in faith, glorify God and serve others. You can find more information at <http://www.oc.edu/ethos>.

#### CHAPEL

The campus meets Monday through Friday at 11:00 am for chapel. Monday through Wednesday, chapel meets in Baugh Auditorium. Wednesday through Friday, the campus hosts other topical, textual, departmental chapels which meet in various locations across campus. These alternative chapels include topics like missions, women's chapel, spiritual searching, academic departmental gatherings, worship singing, among many others.

#### DEVOTIONALS

In addition to the required spiritual formation of the Ethos program, 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 OKC 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 Ghana, Malawi, Rwanda, Swaziland, Tanzania, Uganda, Japan, China Malaysia, Thailand, Austria, Croatia, Germany, France, Belgium, Ireland, Scotland, England, Spain, Ukraine, American Samoa, Australia, New Zealand, Vanuatu, Brazil, Guatemala, Haiti, Honduras, Nicaragua, Panama, Peru, Canada as well as other parts of the United States.



## 2020-2021 ATTENDANCE COSTS

### TUITION – FALL/SPRING/SUMMER

#### FULL-TIME STUDENTS, PER SEMESTER

12-17 semester hours	\$12,275
Hours over 17, per semester hour	\$720
Concurrent students, per course	\$245
Summer school, per semester hour	\$430
Winter Session, per semester hour	\$430

\*Scholarships do not apply in summer/winter sessions

Audit fees per semester hour	\$50
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#### PART-TIME STUDENTS, PER SEMESTER

Part-time students (fewer than 12 hours), per semester hour	\$1020
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#### MANDATORY FEES, PER SEMESTER

Intermediate Algebra	\$75
Student Activity Fee, full-time	\$150
Student Activity Fee, part-time	\$75
Technology Fee, per credit hour (maximum \$120 per semester)	\$10
Commuter Fee for non-residential students	\$250

#### COURSE RELATED FEES, PER COURSE

PROGRAM	FEE NAME	
Art & Design	Art & Design Tech. Fee, per lab course	\$75
Art & Design	Figure Drawing, per course	\$30
Athletics	NCAA or Club Sports, per semester	\$100
Biology	Biology 1: Princ. of Biol per lab course	\$50
Biology	Biology Lab Fee, per lab course	\$150
Biology	Human Anatomy w/Cadaver, per lab course	\$400
Chemistry	Chemistry Lab Fee, per lab course	\$150
Computer Science	Computer Science Lab Fee, per lab course	\$75
Electrical Engineering	Electrical Eng. Lab Fee, per lab course	\$150
Mechanical Engineering	Mechanical Eng. Lab Fee, per lab course	\$150
Medical Lab Science	Immunohematology Lab Fee, per lab crse	\$100
Music	Music Private Lesson Fee, per sem. hour	\$260
Music	Music accompanist fee, as needed per use	TBD
Nursing	Nursing Clinical Fee, per clinical	\$400
Physical Sciences	General Physical Science, per lab course	\$50
Physics	Physics Lab Fee, per lab course	\$150

#### SPECIAL COSTS

Application Fee	\$25
English as a Second Language TOEFL Exam Fee	\$50
Enrollment Deposit (not refundable after May 1)	\$250
Finance Lab Fee	\$40
Graduation Fee	\$100
Take Flight, one-time charge, from deposit	\$150
Parking Permit, original	\$50
Additional or Replacement, each	\$5
ID Activity Card and Replacement, each	\$20
Health Insurance, Annual 08/01/20 thru 07/31/21	\$1582

(required of all students who have not given proof of insurance on the student's myOC account for the fall semester by September 30, 2020 and for the spring semester by February 10, 2021).

Transcripts, per transcript	\$5
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Request transcripts at [www.oc.edu/registrar](http://www.oc.edu/registrar)

#### RESIDENCE HALLS

DORMS	ANNUAL	SEMESTER
STANDARD DORMS (SHARED ROOM)	\$4,400	\$2,200
STANDARD DORMS (PRIVATE ROOM)	\$5,600	\$2,800
PREMIUM DORMS (SHARED ROOM)	\$5,200	\$2,600
PREMIUM DORMS (PRIVATE ROOM)	\$6,400	\$3,200

#### APARTMENTS

STANDARD APARTMENTS (SHARED ROOM)	\$4,400	\$2,200
STANDARD APARTMENTS (PRIVATE ROOM)	\$5,600	\$2,800
PREMIUM APARTMENTS (SHARED ROOM)	\$6,400	\$3,200
PREMIUM APARTMENTS (PRIVATE ROOM)	\$7,600	\$3,800

Go to [www.oc.edu/residencelife](http://www.oc.edu/residencelife) for a list of shared and premium dorms.

Note: All undergraduate students, excluding married students, living in OC housing are required to select a meal plan.

#### MEAL PLAN

DORMS	ANNUAL	SEMESTER
15 Meals Per Week	\$3,500	\$1,750
All Access 5	\$3,500	\$1,750
All Access 7	\$3,950	\$1,975

#### MEAL PLAN

APARTMENTS	ANNUAL	SEMESTER
75 meals/semester	\$1,260	\$630
150 meals/semester	\$1,770	\$885

## 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.fafsa.gov](http://www.fafsa.gov) or from the Student Financial Services Office.

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 semester hours), per semester	\$12,275
Average room cost for freshmen, per semester	\$2,200
Meal Plan, All Access 5 + 250 Eagle Bucks	\$1,750
Student Activity Fee	\$150
Technology Fee	\$120
Total	\$16,495

The tuition charge of \$12,275 per semester is for 12 to 17 semester hours.

Some programs may have course related fees. Fees are separate charges from this tuition. Those enrolling in more than 17 credit hours per semester pay \$720 for each hour above 17.

## PAYMENT

### STUDENT ACCOUNT AND AGREEMENTS FORM

All students will receive a link to the Student Account & 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 two weeks prior to the start of each semester 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/board two weeks prior to each semester. Checks should be made payable to OC. The total cost, excluding financial aid, is approximately \$16,250. 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 2.75% convenience fee.

### PLAN 2 – INSTALLMENT PAYMENT PLAN

This monthly payment plan is available through the student's online account at <http://my.oc.edu>. There is a contract fee of \$50. The first payment is due upon enrollment in the payment plan. No finance charges are assessed to the student's account as long as the contract payments are made on time each month. Yearly costs may be paid in 8, 9, or 10 months depending on the enrollment date. For a 10-month payment plan, the student or parent must enroll before July 25. Students can access their student account by clicking on "Student Account Online" located on MyOC under QuickLinks. Students may also grant their parent(s) access by assigning a Parent Pin from their Student Account Online.

### 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](http://www.oc.edu/loans) for additional information regarding this loan.

### PLAN 4 – ALTERNATIVE LOANS

Various student loan 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](http://www.oc.edu/loans). For a complete listing of OC's financial policies, please visit [www.oc.edu/financial](http://www.oc.edu/financial).

## REFUND POLICY

### WITHDRAW/DROP 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, 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 seven-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, 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 one-week to six weeks in length (including Wintersession courses) by the second day of class. Refunds are given as follows:

- If the withdrawal date is on the first DAY, a 100% refund will be made.
- 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.

### 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.studentloans.gov](http://www.studentloans.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. For more information, contact the Student Financial Services Office or visit [www.oc.edu/loans](http://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 8 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 online on the university's website at [www.oc.edu/campusjobs](http://www.oc.edu/campusjobs).

## SCHOLARSHIP AND AID PROGRAMS

OC offers scholarships for students planning to attend the university based on financial need and merit. Information regarding available scholarships can be found at [www.oc.edu/scholarships](http://www.oc.edu/scholarships). Application forms are available through the Admissions Office and at [www.oc.edu/admissions](http://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 8 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 may 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 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 work, but do not qualify for Federal Work-Study programs. On-campus and off-campus job opportunities are posted on the university's website at [www.oc.edu/jobs](http://www.oc.edu/jobs).

## OTHER AID PROGRAMS

### JOHN B. WHITLEY/STUDENT GOVERNMENT ASSOCIATION LOAN FUND

This fund is maintained through the Office of Student Life. Loans up to \$50 are available to students for a period of one month at a \$0.50 interest fee per loan. Repayment of loans is set on a 30-day basis, with a default charge of \$10. The fund was established by the residents of the OC men's residence halls and Mr. and Mrs. Francis Whitley of Riddleton, Tennessee, in memory of their son, an OC student in the 1960s.

### VETERANS PROGRAMS

Assistance is available to veterans who have served in the U.S. Armed Forces for more than six months of active duty. Students should check with their regional Veterans Administration Office.

Disabled veterans are handled through a separate program by the VA. To assist disabled veterans in receiving additional benefits, the VA set up a counseling program. Children of veterans may be eligible for some benefits. You should check with the VA office to determine if you qualify as a war orphan or as a child of a veteran.

### BIA GRANTS

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

### VOCATIONAL REHABILITATION PROGRAMS

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

## APPLICATION INFORMATION

For answers to questions or for an application, please write or call:  
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> | [admissionoffice@oc.edu](mailto:admissionoffice@oc.edu)

## GRADUATE STUDIES INFORMATION

For information on the Master of Arts in Christian Ministry, Master of Arts in Christianity & Culture, Master of Divinity, or Master of Theological Studies, contact the Graduate School of Theology at [gst@oc.edu](mailto:gst@oc.edu).

For information on the Master of Accountancy or Master of Business Administration, contact the Graduate School of Business at [gsb@oc.edu](mailto:gsb@oc.edu).

For information on the Master of Science in Engineering and Master of Science in Computer Science, contact the Graduate School of Engineering and Computer Science at [gsecs@oc.edu](mailto:gsecs@oc.edu).

## ACADEMIC POLICIES

### ADMISSION

To be accepted to Oklahoma Christian University, students must complete the following steps:

#### FOR HIGH SCHOOL STUDENTS:

1. Submit a completed application for admission and \$25 non-refundable application fee.
2. Submit a current high school transcript.
3. Submit an ACT or SAT score.

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.

#### ACT OR SAT EXAMS

The ACT or RSAT is required of all entering freshmen except for international students. You should take the test during the regular testing periods during your junior or senior year in high school since some scholarship offers are based on test scores.

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 and \$25 non-refundable application fee.
2. Submit evidence of having passed the GED test.
3. Submit an ACT or SAT score.

**FOR TRANSFER STUDENTS FROM OTHER COLLEGES OR UNIVERSITIES:**

Submit a completed application for admission and \$25 non-refundable application fee.

Submit an official high school transcript (waived for students who have completed 24 or more semester hours of accredited college credit).

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 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:**

Submit a completed application for admission and \$25 non-refundable application fee.

Submit an official high school transcript (waived for students who have completed 24 or more semester hours of accredited college credit).

Submit a complete official transcript from the preacher training school attended.

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](http://www.oc.edu/apply). A \$25 non-refundable application fee will be required before submitting the online application. This school is authorized under Federal Law to enroll nonimmigrant students. Undergraduate international students must submit no less than \$3500 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 500 PBT (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 primary language other than English. See the Office of the Registrar 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, \$33,290 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 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 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.

**CLASSIFICATION OF STUDENTS****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 he/she has completed 8 full time (12 hour) 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.

**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.

## ACADEMIC STATUS

### GOOD STANDING

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

Freshman	1.70	(D)
Sophomore	2.00	(C)
Junior	2.00	(C)
Senior	2.00	(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 will 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, online, or hybrid), 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 in awarded for AP, CLEP, IB, credit by exam, or prior learning credit.

W: Withdrawn from a course after the fourth week and before the 12th week of a regular 15 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.

## GRADUATE 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 transmitting of another's ideas, words, or materials as one's own and/or the failure to credit accurately 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 Chief Academic Officer, 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 Chief Academic Officer, 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 Chief Academic Officer 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. The student should be referred to the OC Covenant for principles that should guide conduct in such matters.

## STUDENT COMPLAINT SYSTEM AT OKLAHOMA CHRISTIAN UNIVERSITY

To improve the ease and accessibility of reporting student complaints, Oklahoma Christian University developed an online student complaint system that was deployed in the Fall 2016 semester. The new 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.

1. 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.



2. 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 documents 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 Chief Academic Officer.

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 university's Interim 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 filled. Once a class is filled, students may place themselves on the waiting list 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. For more information, visit [www.oc.edu/registrar/waitlist](http://www.oc.edu/registrar/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.
- Get your professor's signature, unless the drop is made before the last day to add classes.
- 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.

**Note: Freshmen and sophomores must enroll in a Bible course each semester. These classes may not be dropped.**

### 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 TERM:

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

### 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 Office if the add 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.

## 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 by independent study 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.

### 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 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 (405) 425-5921. 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

Registration and payment for all CLEP exams must be completed through College Board. All payments for the CLEP exams are non-refundable. There is an additional fee of \$30 for test administration that can be paid to OC prior to the day of the exam or paid electronically using our online form. (If a student is taking the College Composition Modular that there is also a grading fee of \$25.) 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 class work 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 examination 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 work 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.

# 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
General Biology	4	BIOL-1115	General Biology I
Introduction to Chemistry	3	CHEM-1104	Introduction to Chemistry
General Chemistry I	4	CHEM-1115	General Chemistry
General Chemistry I & II	5	CHEM-1115 & CHEM-1215	General Chemistry I & General Chemistry II
Computer Science A	3	CMSC-1113	Programming I
Computer Science B	4	CMSC-1113 & 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-2923	Perspectives in Western Civilization
French, Language	3	FRNC-1113 & 1213	Beginning French I & II
German, Language	3	GERM-1113 & 1213	Beginning German I & II
Government and Politics	3	POLS-2113	American Government
Human Geography	3	GEOG-2113	Elements of Human Geography
Math/Calculus AB	3	MATH-2114	Calculus I with Analytical Geometry
Math/Calculus BC	4	MATH-2114 & 2214	Calc I and Calc. II with Analytical Geometry
Music/Listening/Literature	3	FINE-2913	Perspectives in Fine Arts
Music Theory	3	MUSC-1023	Fundamentals of Music Theory
Psychology	3	PSYC-1113	General Psychology I
Physics 1	3	PHYS-1114	College Physics I
Physics 2	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 & 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 2223	History of the U.S. to 1877
U.S. History and History of the U.S. since 1877	4	HIST-2213 & 2223	History of the U.S. to 1877
World History	3	HIST-2923	Perspectives in Western Civilization

## CLEP TESTS OFFERED AT OC 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 given for English Literature, ENGL-2213.

SUBJECT EXAMINATIONS	OC REQ. SCORE	COURSE CODE	OC COURSE
American Government	63	POLS-2113	Intro to American Government
Pre-Calculus	61	MATH-1223 & MATH-1523	Mathematical Functions and Modeling/ Trigonometry
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 Modular	55	ENGL-1113	English Composition I
History of U.S. I	56	HIST-2213	History of the U.S. to 1877
History of U.S. II	57	HIST-2223	History of the U.S. Since 1877
Humanities	56	FINE-2913	Perspectives in Fine Arts
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
Principles of Macroeconomics	62	ECON-2113	Macroeconomic Principles
Principles of Microeconomics	64	ECON-2213	Microeconomic Principles
Introduction to Psychology	59	PSYC-1113	General Psychology I
Introduction to Sociology	59	SOCI-1113	Perspectives in Sociology
Western Civilization I: Near East-1648	57	HIST-2923	Perspectives in Western Civilization
Western Civilization II: 1648-Post WWII	56	HIST-2923	Perspectives in Western Civilization

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

## 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.

INTERNATIONAL BACCALAUREATE			
Higher Level Course	Equivalent OC Course	Minimum Score	Semester hours
Biology	BIOL-1013 Principles of Biology I	4	3
Introduction to Chemistry	CHEM-1104-- Introduction of Chemistry	4	4
Chemistry	CHEM-1115 – General Chemistry	4	4
Chemistry I & II	CHEM-1115 – General Chemistry & 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-1223 – Turning Points in U.S. History	4	3
History-European	HIST-2923 – Western Civilization	4	3
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](http://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.

## 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 Office of the Registrar 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 AFROTC course descriptions, please review [http://www.ou.edu/enrollment/course\\_catalog.html](http://www.ou.edu/enrollment/course_catalog.html) and browse for the AERO classes. 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.

## CLASS ATTENDANCE

### CLASS PERIODS

Class periods and class formats vary according to the number of credits given for the course. Typically, 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.

## 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 VA benefits:

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 Office of the Registrar 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. Fundamental 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.

## 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 30 hours in courses typically required for the core curriculum with at least one course in the following seven categories: communication, math, American citizenship, behavioral/social science, literature/fine arts, science, and global civilization.

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 two deficient areas in the seven categories. You also will be required to complete the following at OC: 6-8 hours of Bible to include BIBL-4523 – Capstone: Christ and His World. Those completing a second baccalaureate degree at OC will be covered by the same policy. You may transfer all approved courses from an accredited junior college. A maximum of 65 hours from a junior 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 126 semester hours.

**Note: Freshmen and sophomores must enroll in a Bible course each semester. These classes may not be dropped.**

## 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 12	16*
13 to 31	14*
32 to 47	12*
48 to 63	10*
64 to 79	8*
80 or more	6*

Or reach the total of 16 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 144 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-4523 – Capstone: Christ and His World.

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

- You must complete a minimum of 30 semester hours in a major and a minimum of 18 hours in a minor. 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 must have 2 science courses (6 hours total), one of which must include a lab.

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 Department Chair for that major.

Approval for core curriculum courses must come from the Registrar.

### LIMITATION OF TRANSFER CREDIT

Once a student begins at OC, he or she may not transfer in more than 15 hours of credit to count toward graduation, of which no more than 6 upper division hours of his or her major can be transferred back to OC. Transfer credit in the major must be approved by the student's major department, as explained above.

Specific departments may have additional transfer restrictions.

Only credit from a regionally accredited college or university will be accepted as transfer credit.

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 Request Approval Form is available online 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.

You must have completed all of your graduation requirements with a minimum of 126 hours prior to participating in commencement.

Commencement will be held on November 19, 2020, May 7, 2021.

#### **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 language.

#### **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.

#### **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; and
2. Meet the requirements for education in either elementary education, early childhood, or some field of secondary education.
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 Katy Roybal 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 Ms. Roybal 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 Bridge Mentoring Program, academic coaching, academic recovery, disability services, learning assistants, supplemental instruction, tutors and mentors, and a testing center.

### **BRIDGE PROGRAM**

Students with composite ACT scores of 18 and below may apply to be admitted through the Bridge Program. The aims of the Bridge Program are to alert you to the academic issues that may impede your progress toward completion of a degree and to provide the academic support resources necessary to help you succeed. The Bridge Program Director will mentor you in an effort to prepare you for success in university-level work and will oversee required study sessions, which are an integral part of the Bridge Program.

If you are admitted through the Bridge Program, you may start in either the fall or spring semester. You will take the following courses in that semester:

#### **COMMUNICATION, 5 HOURS**

SDEV-1102	Personal and Professional Strategies for Success
SDEV-0123	Developmental Writing
	or
ENGL-1113	English Composition I
(Based on ACT English subscore)	

#### **MATHEMATICS, 3 HOURS**

SDEV-0103	Intermediate Algebra or appropriate math
(Based on ACT Math subscore.)	

#### **BIBLE, 2-3 HOURS**

BIBL-1103	Introduction to the Bible
BIBL-1212	Life of Christ: Matthew
(Based on Bible Placement Survey Score)	

#### **AS DETERMINED BY ADVISOR, 2-3 HOURS**

Students have the option of adding one additional course with the director's approval. Students will continue to have meetings with the director and receive

academic support services through successful completion of 64 credit hours.

## STUDENT DEVELOPMENT COURSES

Students with low ACT scores will be placed in special courses to help them begin where they need to start in writing and math. These student development courses count for academic credit and toward the 126 minimum hours required for a bachelor degree. These courses are described below.

### 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 to enroll in SDEV-0123 – Developmental Writing before enrolling in ENGL-1113 – English Composition I. Developmental Writing 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. Students enrolled in SDEV-0123 must achieve a grade of "P" (Passing) before enrolling in ENGL-1113.

### 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 mathematics course, OC offers a developmental math course. Intermediate Algebra (SDEV-0103) is required for those with a Math ACT subscore of 22 or lower as preparation for one of the mathematics courses that 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 grade of "P" (Passing) or a grade of "NP" (Not Passing). This course does not satisfy the core curriculum mathematics requirement.

## 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 two semesters at OC with a 2.0 GPA. Students must be enrolled in a minimum of six credit hours throughout a summer 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 term. Students can choose whatever fits best for their schedules, but are required to take CLTR-2103, GERM-1113, and BIBL-3053.

### 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. Go to [www.oc.edu/studyabroad](http://www.oc.edu/studyabroad) to see current and future offerings.

### 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 CCCC programs. If more than four students express interest, the International Programs Committee will decide which students may apply for a CCCC program in a given semester.

For more information, contact the Office of the Chief Academic Officer or the Office of International Programs. Students who participate in a CCCC 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 CCCC programs.

You may apply for a number of outstanding special study programs. For more information, go to <https://www.bestsemester.com>.

## STUDY ABROAD COURSES IN CORE CURRICULUM

STUDY ABROAD COURSES	BA	BFA	BS	BSE	BSN	BME	BBA	BSCE BSEE BSME
HIST-2903 Studies in European Civilization	Western Civilization	Civilization or Liberal Arts	Western Civilization or Liberal Arts	Liberal Arts			Liberal Arts	Psychology, Social Sciences, Fine Arts, Foreign Language, or Liberal Arts
FINE-2903 Aesthetics	Great Works	Great Works or Liberal Arts	Great Works or Liberal Arts		Great Works	Great Works		Psychology, Social Sciences, Fine Arts, Foreign Language, Great Works, or Liberal Arts
BIBL-3053 Christianity and Culture	Bible Elective	Bible Elective	Bible Elective	Bible Elective	Bible Elective	Bible Elective	Bible Elective	Bible Elective
GEOG-2513 Human Geography of the Pacific Rim	Non-Western Civilization	Civilization or Liberal Arts	Non-Western Civilization or Liberal Arts	Liberal Arts		Non-Western Civilization	Liberal Arts	Psychology, Social Sciences, Fine Arts, Foreign Language, or Liberal Arts
CLTR-2103 Cross Cultural Perspectives		Liberal Arts	Liberal Arts	Liberal Arts			Liberal Arts	Psychology, Social Sciences, Fine Arts, Foreign Language, or Liberal Arts
GERM-1113 German I JAPN-1103 Conversational Japanese		Liberal Arts	Liberal Arts	Liberal Arts			Liberal Arts	Psychology, Social Sciences, Fine Arts, Foreign Language, or Liberal Arts
ENGL-2213 Perspectives in Literature	Great Works	Great Works or Liberal Arts	Great Works	Great Works	Great Works	Great Works	Great Works	Great Works or Liberal Arts
COMM-1213 Oral Communication	Communication	Communication	Communication	Communication	Communication	Communication	Communication	Communication
INTL-3313 International Business							International Business	
MATH-2123 History of Mathematics	Great Works	Great Works	Great Works		Great Works			Great Works

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Bible & Ministry (B.A.)		Business Administration (B.B.A.)	
Youth Ministry (B.A.)		Finance (B.B.A.)	
Missions (second major only)		Finance (B.B.A.) and Mathematics (B.S.)	
Vocational Ministry (second major only)		Management (B.B.A.)	
Children's Ministry Certificate		Marketing Management (B.B.A.)	
<b>DIVISION OF EDUCATION AND BEHAVIORAL SCIENCE</b> .....	35	Advertising emphasis	
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Criminal Justice (B.S.)		Professional Selling emphasis	
Family Science (B.S.)		Technology Mediated Marketing emphasis	
Family Science/Human Development (B.S.)		Sports Management (B.B.A.)	
History (B.A.)		Coaching emphasis	
History/Pre-Law (B.A., B.S.)		Esports emphasis	
Political Science (B.S.)		Sports Administration emphasis	
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<b>DIVISION OF LANGUAGE, LITERATURE, AND COMMUNICATION</b> .....	63	Computer Engineering (B.S.C.E.)	
<b>LANGUAGE AND LITERATURE</b> .....	64	Computer Engineering with Software emphasis (B.S.C.E.)	
English (B.A.)		Electrical Engineering (B.S.E.E.)	
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English/Teaching English as a Foreign Language (B.A.)		Dual degrees (B.S./M.S.C.S., B.S.C.E./M.S.E., B.S.E.E./M.S.E.)	
English/Writing (B.A.)		<b>DIVISION OF NATURAL AND HEALTH SCIENCES</b> .....	140
Spanish (B.A.)		Biochemistry (B.S.)	
TEFL Certificate		Biology (B.S.)	
<b>COMMUNICATION</b> .....	67	Biology, Pre Med (B.S.)	
Interdisciplinary Studies (B.A., B.S.)		Chemistry (B.S.)	
Journalism (B.S.)		Exercise Science (B.S.)	
Film and Media Production (B.S.)		Science Education (B.S.E.)	
Motion Media Design (B.A.)		Biology	
Public Communication & Leadership (B.S.)		Physical Science	
Public Relations and Social Media (B.S.)		<b>MEDICAL LABORATORY SCIENCE</b> .....	148
		Medical Laboratory Science	
		<b>SCHOOL OF NURSING</b> .....	149
		Nursing (B.S.N.)	
		Prelicensure Track .....	150
		RN to BSN Competency Based Track .....	151

# 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 curriculum. 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.

Each course in the Honors Program is team-taught, interdisciplinary, and crafted to give you a broad understanding of intellectual and cultural developments and to encourage focused research on specific issues related to a Christian worldview. In addition to the specific courses, you participate in a symposium each week where you have the opportunity to expand your vision of life and your pursuit of intellectual excellence.

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 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. First-year Honors students are eligible for a one-time OG&E Scholarship, the amount of which is determined based on a student's demonstrated financial need per the FAFSA.

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.

The Honors curriculum substitutes for the university's core curriculum.

## HONORS CORE CURRICULUM 47 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

**THE HONORS CURRICULUM REPLACES  
THE UNIVERSITY'S CORE CURRICULUM.**

**BIBLE ELECTIVE, 6 HOURS**  
Take 6 hours of Bible

**BIBLE CAPSTONE, 3 HOURS**  
BIBL-4523 Capstone: Christ and His World

**COMMUNICATION, 3 HOURS**  
ENGL-1113 English Composition I  
Majority have prior learning credit

**MATHEMATICS, 3 HOURS**  
3 hours appropriate to major

**SCIENCE COURSE WITH LAB, 3 HOURS**

**INTERNATIONAL EXPERIENCE, 3 HOURS**  
Study abroad program that includes  
HONR-4113 Honors Experience  
or  
3 hours foreign language

**HONORS COURSES, 26 HOURS**  
HONR-1010 Symposium I  
HONR-1020 Symposium II

HONR-1114 Western Thought and Expression I

HONR-1124 Western Thought and Expression II

HONR-1214 The Bible and Classical Literature

HONR-1224 The Bible, Science, and Human Values

HONR-2010 Symposium III  
HONR-2020 Symposium IV  
HONR-2113 The Quest for Meaning: Christ and the Good Life

HONR-2123 The Quest for Identity: Race, Class, and Gender in American Thought

HONR-3111 Symposium V  
HONR-3121 Symposium VI  
HONR-4111 Symposium VII  
HONR-4121 Senior Honors Seminar

The Honors curriculum is enriched by a carefully focused co-curriculum of museum visits, an annual visit to the Philharmonic, an annual retreat for first year students and other events.



# COLLEGE OF HUMANITIES AND BIBLE

## **Division of Bible**

**Division of Education and Behavioral and Social Sciences**  
**Behavioral and Social Sciences Programs**  
**School of Education**

**Division of Fine and Performing Arts**  
**Art & Design Program**  
**Music Program**

**Division of Language, Literature, and Communication**  
**Language and Literature Program**  
**Communication Program**

# DIVISION OF BIBLE

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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 to others.

Through the College of Humanities and 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)  
Children's Ministry (CMIN)  
Greek (GREK)  
Hebrew (HBRW)  
Missions (MISS)  
Youth Ministry (YTMN)

## DEGREES OFFERED

B.A. Degree in Bible  
B.A. Degree in Bible and Ministry  
B.A. Degree in Youth Ministry

## SECOND MAJOR ONLY

Missions  
Vocational Ministry

## MINORS

Bible  
Biblical Languages  
Children's Ministry  
Church History  
Missions  
Non-textual Bible  
Preaching  
Social Justice  
Youth Ministry

## CERTIFICATES

Children's Ministry

## GRADUATE SCHOOL OF THEOLOGY

M.A.C.M. Master of Arts in Christian Ministry  
M.A.C. & C. Master of Arts in Christianity and Culture  
M.Div. Master of Divinity  
M.T.S. Master of Theological Studies  
For more information, email [graduateprograms@oc.edu](mailto:graduateprograms@oc.edu)

## FACULTY

Jim Baird, D.Phil., Director of Honors Program, Distinguished Professor of Bible and Philosophy  
Alden Bass, Ph.D., Assistant Professor of Bible  
Robert Carpenter, Ph.D., Professor of Missions  
Dudley Chancey, Ph.D., Professor of Youth Ministry  
James D. Dvorak, Ph.D., Chair, Division of Bible, Chair, Graduate School of Theology, Professor of Bible  
John Harrison, Ph.D., Professor of New Testament and Ministry  
Chip Kooi, Ph.D., Professor of Bible  
Lynn McMillon, Ph.D., Distinguished Professor of Bible  
Charles Rix, Ph.D., Dean, College of Humanities and Bible, Associate Professor of Bible  
Grant Testut, Ph.D., Associate Professor of Bible

## LOCATION

Williams Branch Center for Biblical Studies

## DEAN

Charles Rix, Ph.D., Dean of the College of Humanities and Bible, Associate Professor of Bible

## B.A. DEGREE IN BIBLE - 47-48 HOURS, MINOR REQUIRED, 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 18 HOURS BIBLE

BIBL-2713	Introduction to Ministry
BIBL-3013	Hermeneutics
BIBL-3823	Counseling for Ministers
BIBL-3913	Homiletics I: Preparation and Delivery of Religious Speeches
BIBL-4133	Systematic Theology
BIBL-4753	Seminar in Christian Ministry

### 2-3 HOURS EVANGELISM

BIBL-2512	Personal Evangelism
BIBL-3063	Evangelism and Discipleship

### 9 HOURS OLD TESTAMENT TEXTUAL COURSES

### 12 HOURS NEW TESTAMENT TEXTUAL COURSES

#### 3 HOURS REQUIRED NON-TEXTUAL BIBLE

BIBL-4713	Restoration Movement
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#### 3 HOURS OTHER NON-TEXTUAL BIBLE COURSES

### 6 HOURS, BIBLICAL LANGUAGES

A student must take 6 hours of Greek or 6 hours of Hebrew in addition to the above requirements for the B.A. degree.

GREK-1113	Elementary Greek I
GREK-1213	Elementary Greek II
HBRW-1113	Elementary Hebrew I
HBRW-1213	Elementary Hebrew II (May also count as Old Testament textual)

### FOREIGN LANGUAGE

A student must take 6 hours of any foreign language in addition to the above requirements for the BA degree in Bible and Ministry.

## UNIVERSITY CORE CURRICULUM B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

used in major  
5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	used in major Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	should include literature Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater

ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
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GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN BIBLE AND MINISTRY 80-81 HOURS, PLUS 6 ADDITIONAL HOURS IN LANGUAGES



The degree prepares students for the work of a local minister and lays a foundation for graduate studies. It is also the recommended degree for those who have not yet defined a specific area of ministry.

An OC graduate with a Bachelor of Arts degree in Bible and Ministry 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.
4. Communicate the content and message of scripture by means of teaching and preaching.
5. Implement/exercise essential ministry skills such as counseling and relating to people.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 21 HOURS BIBLE

BIBL-2713	Introduction to Ministry
BIBL-3013	Hermeneutics
BIBL-3823	Counseling for Ministers
BIBL-3913	Homiletics I: Preparation and Delivery of Religious Speeches
BIBL-4133	Systematic Theology
BIBL-4753	Seminar in Christian Ministry
BIBL-4763	Homiletics II: Advanced Homiletics

### 2-3 HOURS EVANGELISM

BIBL-2512	Personal Evangelism
BIBL-3063	Evangelism and Discipleship

### 3 HOURS CHOSEN FROM

BIBL-3253	Teaching the Bible
BIBL-4213	Teaching the Bible to Adolescents

### 9 HOURS OLD TESTAMENT TEXTUAL

### 12 HOURS NEW TESTAMENT TEXTUAL

### 6 HOURS ELECTIVE TEXTUAL COURSES

### 3 HOURS REQUIRED NON-TEXTUAL

BIBL-4713	Restoration Movement
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### 9 HOURS OTHER NON-TEXTUAL

#### 3 HOURS PRACTICUM

BIBL-4803	Ministry Practicum
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#### 12 HOURS BIBLICAL LANGUAGES

A student must take 12 hours of Greek or 6 hours of Greek and 6 hours of Hebrew in addition to the above degree requirements for the B.A. in Bible and Ministry.

GREK-1113	Elementary Greek I
GREK-1213	Elementary Greek II
GREK-2113	Intermediate Greek I (May also count as New Testament textual)
GREK-2213	Intermediate Greek II (May also count as New Testament textual)

HBRW-1113	Elementary Hebrew I
HBRW-1213	Elementary Hebrew II
HBRW-2113	Intermediate Hebrew I (May also count as Old Testament textual)
HBRW-2213	Intermediate Hebrew II (May also count as Old Testament textual)

#### FOREIGN LANGUAGE

A student must take 6 hours of any foreign language in addition to the above requirements for the BA degree in Bible and Ministry.

## UNIVERSITY CORE CURRICULUM B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

used in major  
5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	used in major Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	should include literature Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theatre

ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
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GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN YOUTH MINISTRY 71-72 HOURS, PLUS 6 ADDITIONAL HOURS IN BIBLICAL LANGUAGES



The major in youth ministry offers students an opportunity to make special preparation to serve as youth ministers while laying a strong foundation in a study of the Bible and Bible-related subjects. The purpose of the youth ministry major at OC is to equip students to minister with adolescents and their families.

An OC graduate with a Bachelor of Arts degree in Youth Ministry will be able to:

1. Compile and keep updated a list of 10 (or more) current resources for acquiring knowledge and facts about youth and family culture in North America.
2. Produce a one-year calendar for youth and family ministry.
3. Interview authorities trained in the field of counseling to understand who is available in their city.
4. Employ resources (i.e., Dare 2 Share, YLM, SWAT) designed to teach youth how to share the Gospel with their peers.
5. Implement spiritual disciplines for one's own spiritual formation and help others do the same.
6. Develop lesson plans and teach the Bible in a manner relevant to the specific needs of youth.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 15 HOURS BIBLE

BIBL-2713	Introduction to Ministry
BIBL-3013	Hermeneutics
BIBL-3823	Counseling for Ministers
BIBL-4133	Systematic Theology
BIBL-4753	Seminar in Christian Ministry

### 2-3 HOURS EVANGELISM

BIBL-2512	Personal Evangelism
BIBL-3063	Evangelism and Discipleship

### 3 HOURS CHOSEN FROM

BIBL-3253	Teaching the Bible
BIBL-3913	Homiletics I: Preparation and Delivery of Religious Speeches

### 6 HOURS REQUIRED

BIBL-4213	Teaching the Bible to Adolescents
YTMN-4823	Youth Ministry Internship

### 9 HOURS CHOSEN FROM

YTMN-2123	Counseling Adolescents
YTMN-2213	Introduction to Youth and Family Ministry as a Profession
YTMN-2233	Experiential Teaching Methods in the Outdoors
YTMN-3113	Evangelism, Discipleship, and Spiritual Formation with Adolescents
YTMN-3213	Models and Programming in Youth Ministry
YTMN-4113	Adolescent Spirituality, Morality, and Culture

YTMN-4313	Volunteers, Parents, and Staff in Youth and Family Ministry
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### 3 HOURS PRACTICUM REQUIRED

YTMN-4813	Youth Ministry Teaching Practicum
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### 3 HOURS REQUIRED

BIBL-3413	Christian Family
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### 3 HOURS CHOSEN FROM

FMST-2423	Parent-Child Relations
FMST-3913	Family Development

### 6 HOURS PSYCHOLOGY

PSYC-1113	General Psychology I
PSYC-3523	Developmental Psychology

### 6 HOURS OLD TESTAMENT TEXTUAL

### 9 HOURS NEW TESTAMENT TEXTUAL

### 6 HOURS ELECTIVE TEXTUAL

### FOREIGN LANGUAGE

A student must take 6 hours of Spanish, Greek or Hebrew in addition to the above requirements for the BA degree in Bible and Ministry.

## UNIVERSITY CORE CURRICULUM B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

used in major  
5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theatre
ENGL-2213	Perspectives in Literature

MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
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GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## MISSIONS 34 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 truths 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 of salvation.

### 9 HOURS REQUIRED

BIBL-3063	Evangelism and Discipleship
MISS-3513	World Religions
MISS-3613	Cultural Anthropology

### 3 HOURS CHOSEN FROM

MISS-3213	Gospel, Church, and Cultures
MISS-3313	Cross Cultural Ministry

### 6 HOURS MISSIONS ELECTIVES CHOSEN FROM

COMM-4633	Intercultural Communication I
MISS-3003	Vocational Ministry
MISS-3013	Mission Preparation
MISS-3033	Scripture and Mission of God

MISS-3113	Women in Missions
MISS-3153	Urban Ministry
MISS-3673	New Religious Movements
MISS-4113	The Local Church and Missions
MISS-4743	Social Entrepreneurship
MISS-4813	Missions Experience

### 16 HOURS

Any course offered in the College of Humanities and Bible that hasn't been previously taken.

## VOCATIONAL MINISTRY 34 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 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.

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### 34 HOURS FROM THE COLLEGE OF HUMANITIES AND BIBLE

Any course offered in the College of Humanities and Bible may count toward this major regardless of prefix (BIBL, CMIN, GREK, HBRW, MISS, YTMN).

#### MUST INCLUDE 15 HOURS MINIMUM OF TEXTUAL COURSES

to provide needed scheduling flexibility.

#### MUST INCLUDE 15 HOURS MINIMUM OF UPPER DIVISION COURSES

to provide needed scheduling flexibility, some courses meet both requirements, but do not receive double credit hours.

Core curriculum courses in Bible may be counted in these totals.

The following five courses are recommended, but not required:

BIBL-2512	Personal Evangelism
BIBL-3003	Vocational Ministry
BIBL-3823	Counseling for Ministers
BIBL-3913	Homiletics I: Preparation & Delivery of Religious Speeches
MISS-3013	Mission Preparation

# DIVISION OF EDUCATION & BEHAVIORAL AND SOCIAL SCIENCES

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## ACADEMIC DISCIPLINE

Criminal Justice  
Early Childhood Education  
Elementary Education  
Family Science  
History  
Political Science  
Psychology

## AREAS OF STUDY

Criminal Justice (CRMJ)  
Early Childhood Education (ECED)  
Education (EDUC)  
Elementary Education (EDUC)  
Family Science (FMST)  
Geography (GEOG)  
History (HIST)  
Human Development (CHDV)  
Political Science (POLS)  
Psychology (PSYC)  
Sociology (SOCI)

## DEGREES OFFERED

B.A. Degree in History  
B.A. Degree in History/Pre-Law  
B.A. Degree in Psychology  
B.S. Degree in Criminal Justice  
B.S. Degree in Family Science  
B.S. Degree in Family Science/Human Development  
B.S. Degree in History/Pre-Law  
B.S. Degree in Political Science  
B.S. Degree in Psychology  
B.S.E. Degree in Social Studies Education  
B.S.E. Degree in Early Childhood Education  
B.S.E. Degree in Elementary Education

## MINORS

Alternative Certification  
Criminal Justice  
Education  
Family Science  
History  
Human Development  
Political Science  
Psychology  
Social Science

## FACULTY

Sid Brown, J.D., Distinguished Visiting Professor of Criminal Justice  
Allison Cassady, Ph.D., Associate Professor of Education  
Kelli Dudley, Ph.D., Associate Professor of Education  
Joanie Gieger, Ph.D., Assistant Professor of Education  
Bobby L. Kern, Ph.D., Associate Professor of Psychology and Family Science  
Darin Martin, Ed.D., Chair, Teacher Education Program,  
Professor of Education  
Matt McCook, Ph.D., Professor of History  
Jonathan Miller, Ph.D., Associate Professor of Psychology  
Ryan Newell, Ph.D., Professor of Psychology  
Trey Orndorff, Ph.D., Chair, Behavioral and Social Sciences Program,  
Associate Professor of Political Science  
Emily Smith, Ph.D., Assistant Professor of History  
Tina Winn, Ed.D., Chair, Division of Education & Behavioral and Social  
Sciences, Professor of Psychology

## LOCATION

Davission American Heritage

## DEAN

Charles Rix, Ph.D., Dean of the College of Humanities and Bible, Associate  
Professor of Bible

## B.A. DEGREE IN HISTORY 42 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 6 HOURS WESTERN CIVILIZATION

HIST-2923 Perspectives in Western Civilization  
and  
Any European history course

### 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

Courses must be passed with a grade of C or better

HIST-2123 Introduction to Historical Research  
HIST-2813 Data Analysis  
HIST-4733 Senior History Seminar

### 3 HOURS PUBLIC HISTORY

HIST-2723 Introduction to Public History

### 15 HOURS 3000/4000 LEVEL COURSES

### 3 HOURS HISTORY ELECTIVES

### 6 HOURS IN THE SAME FOREIGN LANGUAGE

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew  
BIBL-1312 Life of the Early Church: Acts  
BIBL-2202 Story of the Old Testament  
BIBL-2302 Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

### POLITICAL SCIENCE, 3 HOURS

POLS-2113 Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

used in major  
HIST-2213 History of the U.S. to 1877

### GREAT WORKS, 6 HOURS

should include literature  
ARTS-2013 Survey of Visual Culture  
ARTS-2423 History of Photography & Motion Pictures

COMM-2023 History of Theater  
ENGL-2213 Perspectives in Literature  
MATH-2123 The History of Mathematics  
MUSC-2013 Music Appreciation  
MUSC-3213 Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113 General Psychology I

### WESTERN CIVILIZATION, 3 HOURS

used in major  
HIST-2923 Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113 Elements of Human Geography  
GEOG-2213 World Regional Geography  
HIST-2613 The Modern Middle East  
MISS-3513 World Religions  
MISS-3613 Cultural Anthropology  
MISS-3673 New Religious Movements  
MUSC-3213 Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN HISTORY/PRE-LAW 63 HOURS, PLUS 6 HOURS OF SAME FOREIGN LANGUAGE



The B.A. 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 Arts 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 course work.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 6 HOURS WESTERN CIVILIZATION

HIST-2923 Perspectives in Western Civilization  
and  
Any European history course

### 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

All courses must be passed with a grade of C or better

HIST-2123 Introduction to Historical Research  
HIST-2813 Data Analysis  
HIST-4733 Senior History Seminar

### 15 HOURS 3000/4000 LEVEL

It is recommended that these include both American and European history courses.

### 3 HOURS HISTORY ELECTIVES-2000 LEVEL OR HIGHER

### 6 HOURS BUSINESS CHOSEN FROM

ACCT-2113 Accounting Principles I  
BUSA-4213 Business Law  
ECON-2113 Macroeconomics  
ECON-2213 Microeconomics

### 18 HOURS - OPTION A OR OPTION B

#### OPTION A

#### 9 HOURS POLITICAL SCIENCE

POLS-2113 Introduction to American Government  
POLS-3313 Legal and Legislative Analysis  
POLS-4113 Constitutional Law

#### 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

### 6 HOURS POLITICAL SCIENCE ELECTIVES-2000 LEVEL OR HIGHER

#### OPTION B

#### 9 HOURS POLITICAL SCIENCE

POLS-2113 Introduction to American Government  
POLS-3313 Legal and Legislative Analysis  
POLS-4113 Constitutional Law

### 9 HOURS LITERATURE IN COURSES ABOVE ENGL-2213

### 6 HOURS OF THE SAME FOREIGN LANGUAGE

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew  
BIBL-1312 Life of the Early Church: Acts  
BIBL-2202 Story of the Old Testament  
BIBL-2302 Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

### POLITICAL SCIENCE, 3 HOURS

used in major  
POLS-2113 Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

used in major  
HIST-2213 History of the U.S. to 1877

### GREAT WORKS, 6 HOURS

should include literature  
ARTS-2013 Survey of Visual Culture  
ARTS-2423 History of Photography & Motion Pictures

COMM-2023 History of Theater  
ENGL-2213 Perspectives in Literature  
MATH-2123 The History of Mathematics  
MUSC-2013 Music Appreciation  
MUSC-3213 Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113 General Psychology I

### WESTERN CIVILIZATION, 3 HOURS

used in major  
HIST-2923 Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113 Elements of Human Geography  
GEOG-2213 World Regional Geography  
HIST-2613 The Modern Middle East  
MISS-3513 World Religions  
MISS-3613 Cultural Anthropology  
MISS-3673 New Religious Movements  
MUSC-3213 Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## 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 for graduate work. The department 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 familiarity with the vocabulary of the systems of psychology.
2. Develop basic literature review skills and writing skills necessary to gain admission into graduate school.
3. Become involved in some form of community service.
4. Have GRE scores adequate for admission to most regional universities.
5. Demonstrate spiritual development and service to the church.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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-3523	Developmental Psychology
PSYC-3723	Adult Development and Aging

### 12 HOURS PSYCHOLOGY ELECTIVE

### 6 HOURS SAME FOREIGN LANGUAGE

*Note: MATH-1223-Mathematic Functions and Modeling in the core curriculum is strongly recommended.*

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

should include literature  
ARTS-2013 Survey of Visual Culture

### ARTS-2423

History of Photography & Motion Pictures

### COMM-2023

History of Theater

### ENGL-2213

Perspectives in Literature

### MATH-2123

The History of Mathematics

### MUSC-2013

Music Appreciation

### MUSC-3213

Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

used in major  
PSYC-1113 General Psychology I

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923 Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN CRIMINAL JUSTICE 45 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 the juvenile justice systems as it relates 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 36 HOURS FOUNDATION

CMSC-3633	Introduction to Cyber Security
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-3023	Criminal Justice Practicum
CRMJ-3033	Juvenile Justice
CRMJ-4013	Criminal Procedure
CRMJ-4023	Ethics in Criminal Justice
CRMJ-4033	Introduction to Criminal Investigation
PSYC-3913	Psychology of Crime

### 3 HOURS ELECTIVES

COMM-3333	Team Communication and Leadership
CRMJ-2003	Deviance and Social Justice
CRMJ-3003	Comparative Justice Systems
CRMJ-4043	Family Policy
Or course approved by criminal justice faculty	

### 3 HOURS STATISTICAL ANALYSIS CHOSEN FROM

POLS-2313	Research Skills in Political Science
SOCI-3113	Intro to Psychology Statistics

### 3 HOURS CRIMINAL JUSTICE CAPSTONE

CRMJ-4003	Capstone: Contemporary Issues in Criminal Justice
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## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

## 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 doctorate, 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 to GPA and GRE scores.
7. Demonstrate spiritual development and service to the church.
8. Develop an international perspective that encourages appreciation of individual differences.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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-3523	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 HOURS PSYCHOLOGY ELECTIVES

All students completing this degree will be required to take the GRE general test the semester prior to graduating (example: if you plan to graduate in the spring, the test must be taken during the fall semester) and have one copy of the scores sent to OC. The cost of this exam will be the student's responsibility.

*Note: As of September, the cost for the GRE was \$205.*

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

#### BEHAVIORAL SCIENCE, 3 HOURS

used in major	PSYC-1113 General Psychology I
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#### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

#### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

## 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 majors on the bachelor's level.
5. Demonstrate spiritual development and service to the church.
6. Develop an international perspective that encourages tolerance and appreciation of individual differences.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 33 HOURS FAMILY SCIENCE

BIBL-3453	Personal and Family Finance
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-4043	Family Policy
FMST-4123	Divorce and Stepfamily Relationships
FMST-4533	Family Life Education
FMST-4713	Family Science Practicum
FMST-4733	Professional, Ethical, and Legal Issues

### 3 HOURS FAMILY SCIENCE ELECTIVES

#### 12 HOURS IN 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-3523	Developmental Psychology

**A MINOR IN PSYCHOLOGY IS HIGHLY RECOMMENDED.**

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by department

\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

## B.S. DEGREE IN HISTORY/PRE-LAW 63 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 course work.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 6 HOURS WESTERN CIVILIZATION

HIST-2923 Perspectives in Western Civilization  
and  
Any European history course

### 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

Courses must be passed with a grade of C or better  
HIST-2123 Introduction to Historical Research  
HIST-2813 Data Analysis  
HIST-4733 Senior History Seminar

### 15 HOURS 3000/4000 LEVEL

It is recommended that these include both American and European history courses.

### 3 HOURS HISTORY ELECTIVES-2000 LEVEL OR HIGHER

### 6 HOURS BUSINESS CHOSEN FROM

ACCT-2113 Accounting Principles I  
BUSA-4213 Business Law  
ECON-2113 Macroeconomics  
ECON-2213 Microeconomics

### 18 HOURS - OPTION A OR OPTION B

#### OPTION A

#### 9 HOURS POLITICAL SCIENCE

POLS-2113 Introduction to American Government  
POLS-3313 Legal and Legislative Analysis  
POLS-4113 Constitutional Law

#### 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

#### 6 HOURS POLITICAL SCIENCE ELECTIVES-2000 LEVEL OR HIGHER

#### OPTION B

#### 9 HOURS POLITICAL SCIENCE

POLS-2113 Introduction to American Government  
POLS-3313 Legal and Legislative Analysis  
POLS-4113 Constitutional Law

#### 9 HOURS LITERATURE IN COURSES ABOVE ENGL-2213

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew  
BIBL-1312 Life of the Early Church: Acts  
BIBL-2202 Story of the Old Testament  
BIBL-2302 Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

### POLITICAL SCIENCE, 3 HOURS

used in major  
POLS-2113 Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

used in major  
HIST-2213 History of the U.S. to 1877

### GREAT WORKS, 3 HOURS

should include literature  
ARTS-2013 Survey of Visual Culture  
ARTS-2423 History of Photography & Motion Pictures  
COMM-2023 History of Theater  
ENGL-2213 Perspectives in Literature

MATH-2123 The History of Mathematics  
MUSC-2013 Music Appreciation  
MUSC-3213 Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS  
PSYC-1113 General Psychology I

GREAT WORKS, ADDITIONAL, 3 HOURS  
Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

used in major  
HIST-2923 Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113 Elements of Human Geography  
GEOG-2213 World Regional Geography  
HIST-2613 The Modern Middle East  
MISS-3513 World Religions  
MISS-3613 Cultural Anthropology  
MISS-3673 New Religious Movements  
MUSC-3213 Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department  
\*For more information on how to apply the study abroad trips to the core curriculum see page 25.



## B.S. DEGREE IN POLITICAL SCIENCE 45 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, as 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 9 HOURS SURVEY

POLS-2113	Introduction to American Government
POLS-2213	Introduction to Global Politics
POLS-2413	Comparative Politics

### 3 HOURS LEGAL STUDIES CHOSEN FROM

POLS-3313	Legal and Legislative Analysis
POLS-4113	Constitutional Law

### 9 HOURS 3000/4000 LEVEL GLOBAL OR COMPARATIVE POLITICS

### 9 HOURS 3000/4000 LEVEL AMERICAN POLITICS

#### 9 HOURS RESEARCH

Courses must be passed with a grade of C or better.

POLS-2313	Research Skills in Political Science
POLS-2513	Data Analysis
POLS-4713	Political Science Seminar

### 6 HOURS ELECTIVE POLITICAL SCIENCE OR 3 HOURS POLITICAL SCIENCE AND 3 HOURS MACROECONOMICS

May include an internship

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

used in major	
POLS-2113	Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

#### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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#### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

#### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

## 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 analytical and critical thinking through completion of a research project and presenting that project at a state or regional conference.
2. Develop skills in writing in scientific psychology.
3. Gain admission to graduate school commensurate to GPA and GRE scores.
4. Demonstrate familiarity with the vocabulary of the systems of psychology.
5. Demonstrate spiritual development and service to the church.
6. Become involved in some form of community service.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 34 HOURS REQUIRED PSYCHOLOGY

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-4213	Psychology of Learning
PSYC-4413	Biological Psychology
PSYC-4623	Experimental Psychology
PSYC-4653	Research Seminar
PSYC-4713	History and Systems in Psychology

### 3 HOURS CHOSEN FROM

PSYC-3523	Developmental Psychology
PSYC-3723	Adult Development and Aging

### 18 HOURS PSYCHOLOGY ELECTIVES

### 3 HOURS MATHEMATICS

MATH-1223	Mathematical Functions and Modeling
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All students completing this degree will be required to take the GRE general test the semester prior to graduating (example: if you plan to graduate in the spring, the test must be taken during the fall semester) and have one copy of the scores sent to OC. The cost of this exam will be the student's responsibility.

*Note: As of September the cost for the GRE was \$205.*

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Exp

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

#### BEHAVIORAL SCIENCE, 3 HOURS

used in major	
PSYC-1113	General Psychology I

#### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

#### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civ.
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#### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
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GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

#### LIBERAL ARTS, 3 HOURS

outside major, as approved by department  
\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

## B.S.E. DEGREE IN SOCIAL STUDIES EDUCATION 81 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 6 hours are required for the degree.

An OC graduate with a Bachelor of Science in Social Studies Education will:

1. Have a broad knowledge of the fundamentals of the 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 6 HOURS REQUIRED AMERICAN HISTORY

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

### 3 HOURS REQUIRED WESTERN CIVILIZATION

HIST-2923	Perspectives in Western Civilization
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### 6 HOURS RESEARCH COURSES

Both courses must be passed with a grade of C or better

HIST-2123	Introduction to Historical Research
HIST-4733	Senior History Seminar

### 3 HOURS US HISTORY ELECTIVE

excluding HIST-1223

### 6 HOURS UPPER DIVISION LEVEL AMERICAN HISTORY COURSES

### 9 HOURS WORLD HISTORY ELECTIVES

must include 6 hours numbered 3000 and above

### 3 HOURS OKLAHOMA HISTORY

HIST-2313	Oklahoma History
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### 3 HOURS GEOGRAPHY

GEOG-2213	World Regional Geography
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### 3 HOURS ECONOMICS

ECON-2113	Macroeconomic Principles
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### 6 HOURS POLITICAL SCIENCE

POLS-2113	Introduction to American Government
POLS-2413	Comparative Politics

### PROFESSIONAL EDUCATION MINOR

#### 25 SEMESTER 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-3523	Developmental Psychology

### 3 HOURS METHODS COURSE

EDUC-4473	Methods of Teaching Social Studies in Sec. Schools
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### FOREIGN LANGUAGE COMPETENCY CHOOSE ONE:

High School Foreign Language – 2 years of same language with a grade of “C” or better

University credit – 3 hours foreign language or American Sign Language with a grade of “C” or better.

## UNIVERSITY CORE CURRICULUM: B.S.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

used in major	
POLS-2113	Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

used in major	
HIST-2213	History of the U.S. to 1877

### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
SOCI-1113	Perspectives in Sociology

### DEVELOPMENTAL PSYCHOLOGY, 3 HRS

used in major	
PSYC-3523	Developmental Psychology

### LIBERAL ARTS, 6 HOURS

6 hours from any Liberal Arts area, other than History.

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# 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 (LICENSURE, GRADES 6-12)

(see respective departments 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 Science Education Physical Science  
B.S.E. Degree in Social Studies Education

## ELEMENTARY-SECONDARY (LICENSURE PK-12)

(see respective departments for details)

## MINORS

Professional Education (included with each B.S.E. degree)

## LOCATION

Davisson American Heritage Building

## DEAN

Charles Rix, Ph.D., Dean of the College of Humanities and Bible, Associate Professor of Bible

## 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 National Council for Accreditation of Teacher Education (NCATE) and OC has been a NCATE 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 department.
- Recommendation of the Office of Student Life.
- Satisfactory completion of the Teacher Education Writing Evaluation.
- Grade of "C" or better in COMM-1213.
- Recommendation of Teacher Education Interview Committee.
- A written paper and oral presentation of your reasons for wanting to enter the profession, presented to the Teacher Education Interview Committee.
- One character reference.
- Successful completion of OGET (required in program) or 3.0 GPA on 20 hours selected liberal arts courses, which delays the OGET for one semester.
- 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.

Education candidates who score 22 on the ACT or 1120 on the SAT will not be required to take the OGET. The students have to have taken the ACT and/or SAT with the writing component. The SAT has a separate writing score broken into 3 parts; students must have a 5 on Reading, 4 on Analysis, and 5 on Writing.

### APPROVAL OF TEACHER EDUCATION COUNCIL

*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 Ed. 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.
- Meet 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

(3 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, he/she 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.
- 95 semester hours of credit.
- Passing score on Oklahoma General Education Test (OGET).
- Passing score on the appropriate Oklahoma Subject Area Test (OSAT).
- Overall GPA of 2.75.
- GPA of 3.00 in major.
- Completion of two-thirds of major hours (all courses in the major must be completed before student teaching begins.)
- Recommendation of major department.
- 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.
- 

#### **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 three exams.

There are fees associated with each state test: Oklahoma General Education Test (OGET), Oklahoma State Subject Area Test (OSAT), and PPAT. For testing information, visit [www.ceoe.nesine.com](http://www.ceoe.nesine.com)

#### **STEP 3: APPROVAL FOR CERTIFICATION**

To be recommended for a certificate, the candidate must complete student teaching and the PPAT 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 Department of Teacher Education 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 he or she has acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the Oklahoma General Education Test (OGET).
2. Demonstrate an in-depth knowledge of the subject matter for the subject and level to be taught by achieving a 3.00 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.
3. Demonstrate that he or she has 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 PPAT, and receiving average ratings of Proficient on the Formative and Summative assessments in student teaching.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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-3523	Developmental Psychology

*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.*

### 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:

Options: choose one:

High School Foreign Language – 2 years of same language with a grade of "C" or better

University credit – 3 hours foreign language or American Sign Language with a grade of "C" or better.

## UNIVERSITY CORE CURRICULUM: B.S.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

used in state requirements	
ENGL-1113	English Composition I
ENGL-1213	English Composition II
COMM-1213	Oral Communication

### MATHEMATICS, 3 HOURS

used in state requirements	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

used in state requirements	
POLS-2113	Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

used in state requirements	
HIST-1223	Turning Points in U.S. History

### GREAT WORKS, 3 HOURS

used in state requirements	
ENGL-2213	Perspectives in Literature

### SCIENCE, 6 HOURS

used in state requirements

### PSYCHOLOGY, 6 HOURS

PSYC-1113	General Psychology I
Dev Psyc	used in major
PSYC-3523	Developmental Psychology

### LIBERAL ARTS, 6 HOURS CHOSEN FROM

used in state requirements  
6 hours (as approved by the department)  
English, Fine Arts, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## 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 he or she has acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the Oklahoma General Education Test (OGET).
2. Demonstrate an in-depth knowledge of the subject matter for the subject and level to be taught by achieving a 3.00 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.
3. Demonstrate that he or she has 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 PPAT, and receiving average ratings of Proficient on the Formative and Summative assessments in student teaching.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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	Primary 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-3523	Developmental Psychology

*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.*

### 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

Options: choose one:

High School Foreign Language – 2 years of same language with a grade of "C" or better

University credit – 3 hours foreign language or American Sign Language with a grade of "C" or better.

## UNIVERSITY CORE CURRICULUM: B.S.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

used in state requirements	
ENGL-1113	English Composition I
ENGL-1213	English Composition II
COMM-1213	Oral Communication

### MATHEMATICS, 3 HOURS

used in state requirements	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

used in state requirements	
POLS-2113	Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

used in state requirements	
HIST-1223	Turning Points in U.S. History

### GREAT WORKS, 3 HOURS

used in state requirements	
ENGL-2213	Perspectives in Literature

### SCIENCE, 6 HOURS

used in state requirements

### PSYCHOLOGY, 6 HOURS

PSYC-1113	General Psychology I
Dev Psyc	used in major
PSYC-3523	Developmental Psychology

### LIBERAL ARTS, 6 HOURS CHOSEN FROM

used in state requirements  
6 hours (as approved by the department)  
English, Fine Arts, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# DIVISION OF

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# FINE AND PERFORMING ARTS

## AREAS OF STUDY

Fine Arts (ARTS)  
Gaming and Animation (ARTS)  
Graphic Design (ARTS)  
Interior Architecture (ARTS)  
Music (MUSC)

## DEGREES OFFERED

B.A. Degree in Gaming and Animation  
B.A. Degree in Music  
B.A. Degree in Visual Art, Art Emphasis  
B.F.A. Degree in Art  
B.F.A. Degree in Digital Art  
B.F.A. Degree in Gaming and Animation  
B.F.A. Degree in Graphic Design  
B.F.A. Degree in Interior Architecture  
B.M.E. Degree in Music Education, Instrumental Emphasis  
B.M.E. Degree in Music Education, Vocal Emphasis  
B.S. Gaming and Animation  
B.S. Degree in Graphic Design

## MINORS

Art  
Art History  
Graphic Design  
Interior Architecture  
Music  
Photography +Videography

## FACULTY

Amy Beauchamp, M.F.A., Chair, Art and Design Program, Assistant Professor of Art and Design  
David Crismon, M.F.A., Professor of Art and Design  
Scott Filleman, M.Ed., Assistant Professor of Music  
John Fletcher, D.M.A., Chair, Division of Fine and Performing Arts, Professor of Music  
Paula Hutton, Ph.D., Associate Professor of Music  
Heath Jones, Ph.D., Chair, Music Program, Professor of Music  
Ellie Kirkner, B.F.A., Instructor of Gaming and Animation  
Michael J. O'Keefe, M.F.A., Professor of Art and Design  
Kyle Pullen, D.M.A., Professor of Music  
Skyler Thomas M.F.A., Assistant Professor of Gaming and Animation

## LOCATION

Fletcher Center for Music  
Garvey Center for the Liberal Arts  
Kresge Fine Arts

## DEAN

Charles Rix, Ph.D., Dean of the College of Humanities and Bible

## SPECIAL NOTES FOR ART AND DESIGN MAJORS:

1. You must provide your own supplies, including some software.
2. 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.
3. If an M.A. in Art History is anticipated, two courses in a foreign language and an additional 9 hours of art history are highly recommended. Areas of study Music (MUSC)

## SPECIAL REQUIREMENTS FOR ALL MUSIC MAJORS:

All prospective music majors must take placement exams in music fundamentals and piano. Credit may be earned for AP tests or previous study if their skills meet departmental expectations.

All prospective music majors must audition in their major performance area during their second semester for official acceptance into a music degree program.

All music majors must enroll in MUSC-1000, Recital Attendance, each semester. A minimum grade of "C" must be earned in at least 6 of those semesters.

All music majors are required to audition for at least one approved ensemble each semester. Only four hours of credit will apply toward the degree program. The faculty may direct pianists to substitute accompanying for ensemble experience.

As a graduation requirement, students must pass the two sections of the Piano Proficiency Exam as described in departmental publications. The Repertoire section is given as the final exam for MUSC-2581 and the Functional Skills section is the final exam for MUSC-2681. Music majors should continue to enroll in class piano or applied piano each semester until the exam is successfully completed.

No music major will be permitted to participate in commencement exercises without having:

Passed the Piano Proficiency Exam.

Completed all requirements for the senior recital/senior project, MUSC-4001/4011.

Each music major should consult the music department chair regarding the cut-off date after which the student will forfeit the opportunity to participate in upcoming commencement exercises should the stated requirements not yet be completed.

## B.A. DEGREE IN GAMING AND ANIMATION 51 HOURS, PLUS 6 HOURS OF SAME FOREIGN LANGUAGE



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 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 his or her 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 his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 18 HOURS FOUNDATION

ARTS-1103	Digital Imaging I
ARTS-1113	Fundamentals of Drawing
ARTS-1213	Figure Drawing
ARTS-2143	Digital Painting
ARTS-2753	Texturing, Rendering, and Lighting
ARTS-3363	Photography I

ARTS-3163	Animation Principles
ARTS-3173	3D Modeling and Animation II
ARTS-3383	Motion Imagery
ARTS-3453	Team Game Production I
ARTS-4223	Gaming and Animation Studio
ARTS-4333	Commercial Studio Photography
ARTS-4663	Gaming + Animation Capstone

### 6 HOURS ART AND DESIGN HISTORY

ARTS-3333	History of Design
ARTS-3393	Game History and Development

### 6 HOURS FOREIGN LANGUAGE

Take 6 hours of the same foreign language

### 27 HOURS GAMING AND ANIMATION

ARTS-2133	Intro to Game Technology
ARTS-2743	3D Modeling I

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures

COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN MUSIC 51 HOURS, MINOR REQUIRED, 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 departmental standards.
6. Ability to communicate clearly, critically, and creatively about music.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 III
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

### 2 HOURS ADVANCED THEORY AND TECHNIQUE

MUSC-3412	Orchestration
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### 2 HOURS CONDUCTING CHOSEN FROM

MUSC-4212	Choral Conducting I
MUSC-4312	Instrumental Conducting I

### 2 HOURS MUSIC TECHNOLOGY

MUSC-3432	Music Education Technology
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### 10 HOURS APPLIED MUSIC SELECTED FROM VOCAL AND INSTRUMENTAL STUDY WITH CONSENT OF ADVISOR

### 6 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

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater

ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.A. DEGREE IN VISUAL ART, ART CONCENTRATION 51 HOURS, PLUS 6 HOURS OF SAME FOREIGN LANGUAGE



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 Arts degree in Visual Art with a concentration in 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 his or her 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 his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 21 HOURS FOUNDATION

ARTS-1103	Digital Imaging I
ARTS-1113	Fundamentals of Drawing
ARTS-1213	Figure Drawing
ARTS-1413	Elements of Visual Thinking
ARTS-2223	Introduction to Communication Design
ARTS-2323	Digital Imaging II
ARTS-3773	The Business of Branding Yourself

### 3 HOURS ART HISTORY REQUIRED

ARTS-3343	Ancient to Modern Art History
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### 3 HOURS ART HISTORY ELECTIVES CHOSEN FROM

ARTS-2423	History of Photography and Motion Pictures
ARTS-2433	History of Gaming and Animation
ARTS-3333	History of Design
ARTS-3353	Contemporary Art
ARTS-3533	Historical Interior Design I
ARTS-3543	Historical Interior Design II
ARTS-3633	Contemporary Interior Design

### 12 HOURS ART CONCENTRATION

ARTS-2513	Painting I
ARTS-2523	Digital Sculpting
ARTS-3213	Painting II
ARTS-3523	Illustration I

### 12 HOURS ELECTIVES CHOSEN FROM

ARTS-2233	Typography As Visual Language
ARTS-3113	Printmaking: Intaglio and Relief
ARTS-3123	Printmaking: Serigraphy
ARTS-3363	Photography I
ARTS-4213	Open Studio
ARTS-4523	Illustration II

### 6 HOURS FOREIGN LANGUAGE

Take 6 hours of the same foreign language

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures

COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2213	World Regional Geography
GEOG-2113	Elements of Human Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.F.A. DEGREE IN ART 69 HOURS



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 Fine Arts degree in 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 his or her 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 in his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 30 HOURS FOUNDATION

ARTS-1103	Digital Imaging I
ARTS-1113	Fundamentals of Drawing
ARTS-1213	Figure Drawing
ARTS-1413	Elements of Visual Thinking
ARTS-2323	Digital Imaging II
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-3773	The Business of Branding Yourself

### 9 HOURS PAINTING

ARTS-2513	Painting I
ARTS-3213	Painting II
ARTS-4213	Open Studio

### 6 HOURS ILLUSTRATION

ARTS-3523	Illustration I
ARTS-4523	Illustration II

### 9 HOURS PROFESSIONAL DESIGN

ARTS-2223	Introduction to Communication Design
ARTS-2233	Typography As Visual Language
ARTS-3243	Graphic Design

### 15 HOURS ART AND DESIGN ELECTIVES CHOSEN FROM

ARTS-2143	Digital Painting
ARTS-2423	Interactive Media Design I
ARTS-3113	Printmaking: Intaglio and Relief
ARTS-3123	Printmaking: Serigraphy
ARTS-3253	Print + Social Media Design
ARTS-3263	Advanced Graphic Design
ARTS-3363	Photography I
ARTS-4253	Integrated Marketing Design
ARTS-4333	Commercial Studio Photography
ARTS-4643*	Senior Exhibit
ARTS-4830*	Art Internship

\*Only with advisor's approval.

Six credit hours of Foreign Language is strongly encouraged if the student is pursuing a graduate degree in Art History. The six credit hours of Foreign Language can be applied toward the 15 hours of electives.

## UNIVERSITY CORE CURRICULUM: B.F.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience.

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

used in major

ARTS-2423	History of Photography & Motion Pictures
ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### LIBERAL ARTS, 9 HOURS

9 hours from any Liberal Arts except Art: Communication, English, Family Science, Foreign Language, History, Math, Music, Political Science, Psychology, Science.

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.F.A. DEGREE IN DIGITAL ART 72 HOURS



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 Fine Arts degree in 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 his or her 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 in his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 FINE ARTS

ARTS-2143	Digital Painting
ARTS-2513	Painting I
ARTS-3213	Painting II
ARTS-3363	Photography I
ARTS-4213	Open Studio
ARTS-4333	Commercial Studio Photography

## 12 HOURS GAMING AND ANIMATION

ARTS-2523	Digital Sculpting
ARTS-2743	3D Modeling I
ARTS-4223	Gaming + Animation Studio
ARTS-4663	Gaming + Animation Capstone

## 9 HOURS GRAPHIC DESIGN

ARTS-3523	Illustration I
ARTS-3773	The Business of Branding Yourself
ARTS-4523	Illustration II

## 15 HOURS ART/DESIGN/GAME 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
ARTS-3393	Game History and Development

## 6 HOURS ART AND DESIGN ELECTIVES

Take 6 hours in Art and Design Department not previously taken.

# UNIVERSITY CORE CURRICULUM: B.F.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

## COMMUNICATION, 9 HOURS

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

## MATHEMATICS, 3 HOURS appropriate to major

## REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

## BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience.

## CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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## POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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## AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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## GREAT WORKS, 3 HOURS

used in major	
ARTS-2423	History of Photography & Motion Pictures
ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art

## SCIENCE, 6 HOURS

One course must include a lab

## BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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## LIBERAL ARTS, 9 HOURS

9 hours from any Liberal Arts except Art: Communication, English, Family Science, Foreign Language, History, Math, Music, Political Science, Psychology, Science.

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## 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 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 his or her 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 in his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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	Intro 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
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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-4223	Gaming + Animation Studio
ARTS-4333	Commercial Studio Photography
ARTS-4663	Gaming + Animation Capstone

### 3 HOURS MANAGEMENT

MGMT-3323	Entrepreneurship and Small Business Management
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## UNIVERSITY CORE CURRICULUM: B.F.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience.

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

used in major

ARTS-2423	History of Photography & Motion Pictures
ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### LIBERAL ARTS, 9 HOURS

9 hours from any Liberal Arts except Art: Communication, English, Family Science, Foreign Language, History, Math, Music, Political Science, Psychology, Science.

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## 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 his or her 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 in his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 15 HOURS FOUNDATION

ARTS-1113	Fundamentals of Drawing
ARTS-1213	Figure Drawing
ARTS-1413	Elements of Visual Thinking
ARTS-3343	Ancient to Modern Art History
ARTS-3773	The Business of Branding Yourself

### 30 HOURS COMMUNICATION DESIGN

ARTS-2223	Introduction to Communication Design
ARTS-2233	Typography Visual Language
ARTS-3243	Graphic Design
ARTS-3253	Print and Social Media Design
ARTS-3263	Advanced Graphic Design
ARTS-3333	History of Design
ARTS-3513	Graphic Arts Production
ARTS-3523	Illustration I
ARTS-4253	Integrated Marketing Design
ARTS-4523	Illustration II

### 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

### 15 HOURS ELECTIVES CHOSEN FROM

Any Art and Design courses not already taken and/or the following courses from the Department of Communication:

COMM-2413	Photographic Principles +Practices
COMM-2633	Audio for Media
COMM-2643	Media Production
COMM-3653	Film and Location Editing
COMM 3703	Motion Graphics
COMM-4763	Advanced Media Production

### CAN CHOOSE SPECIALIZED AREAS SUCH AS:

Illustration and Fine Arts  
Gaming and Animation  
Digital Art  
Photography and Videography

*COMM-3703 Motion Graphics is strongly recommended as one of the courses chosen in the elective area.*

## UNIVERSITY CORE CURRICULUM: B.F.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience.

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

used in major	
ARTS-2423	History of Photography & Motion Pictures
ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### LIBERAL ARTS, 9 HOURS

9 hours from any Liberal Arts except Art: Communication, English, Family Science, Foreign Language, History, Math, Music, Political Science, Psychology, Science.

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## 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 his or her 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 in his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 6 HOURS FOUNDATION

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-1103	Digital Imaging I
ARTS-1623	Introduction to Interior Design
ARTS-1643	Interior Textiles, Materials, and Finishes
ARTS-1653	Computer Aided Design
ARTS-2123	Rendering in Perspective
ARTS-2443	Construction Materials and Details
ARTS-2623	Residential Interior Design
ARTS-2653	Space Planning and Codes

ARTS-2663	Architectural Graphics
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
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
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### 6 HOURS BUSINESS CHOSEN FROM

Upper Level Business Courses as approved by Advisor

## UNIVERSITY CORE CURRICULUM: B.F.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience.

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

used in major

ARTS-2423	History of Photography & Motion Pictures
ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### LIBERAL ARTS, 9 HOURS

9 hours from any Liberal Arts except Art: Communication, English, Family Science, Foreign Language, History, Math, Music, Political Science, Psychology, Science.

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.M.E. DEGREE IN MUSIC/INSTRUMENTAL EMPHASIS, 84 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 with a 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 interest and departmental standards.
5. Ability to perform a cross-section of that repertory according to the student's interest and departmental 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 III
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

## 5 HOURS ADVANCED THEORY AND TECHNOLOGY

MUSC-3412	Orchestration
MUSC-3432	Music Technology
EDUC-3421	Educational 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 MAJOR PERFORMANCE INSTRUMENT

## 1 HOUR SECONDARY INSTRUMENT

## 1 HOUR VOICE

## 4 HOURS MUSIC ENSEMBLE

1300-1400 level courses

## 1 HOUR CAPSTONE PROJECT OR RECITAL

MUSC-4001	Senior Recital
MUSC-4011	Senior Project

## 24 HOURS PROFESSIONAL EDUCATION

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 Instructional and Assessment Strategies
EDUC-4231	Critical Issues in Education
EDUC-4432	Secondary Instrumental Music Methods
EDUC-4818	Student Teaching in the Elementary and Secondary Schools

## 3 HOURS PSYCHOLOGY

PSYC-3523	Developmental Psychology
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## 4 HOURS MUSIC METHODS

EDUC-4422	Elementary Music Methods
EDUC-4432	Secondary Instrumental Music Methods

## FOREIGN LANGUAGE COMPETENCY

Choose One:  
High School Foreign Language – 2 years of same language with a grade of “C” or better  
University credit – 3 hours foreign language or American Sign Language with a grade of “C” or better

# UNIVERSITY CORE CURRICULUM: B.M.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

## COMMUNICATION, 9 HOURS

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

## MATHEMATICS, 3 HOURS

Appropriate to major

## REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

## BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

## CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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## POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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## AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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## GREAT WORKS, 3 HOURS

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 and Contemporary Music

## SCIENCE, 6 HOURS

One course must include a lab

## BEHAVIORAL SCIENCE, 6 HOURS

PSYC-1113	General Psychology I
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PSYC-3523	Developmental Psychology
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## GREAT WORKS, ADDITIONAL, 3 HOURS

ARTS-2013	Intro to Visual Arts
COMM-2023	History of Theater
ENGL-2213	English Literature

## NON-WESTERN CIVILIZATION, 3 HOURS

MUSC-3213	Perspectives in World Music
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\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.M.E. DEGREE IN MUSIC/VOCAL EMPHASIS, 85 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 with a 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 interest and departmental standards.
5. Ability to perform a cross-section of that repertory according to the student's interest and departmental 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 vocal music effectively.
9. Organizational leadership skills for management of vocal ensembles in the public schools.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 III
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

### 6 HOURS ADVANCED THEORY AND TECHNOLOGY

MUSC-3412	Orchestration
MUSC-3432	Music Technology
EDUC-3421	Educational Technology

### 10 HOURS MUSIC TECHNIQUE

MUSC-2512	Diction I: English and Italian
MUSC-2522	Diction II: French and German
MUSC-3452	Vocal Pedagogy
MUSC-4212	Choral Conducting I
MUSC-4222	Choral Conducting II

### 1 HOUR PIANO

### 8 HOURS VOICE

### 4 HOURS MUSIC ENSEMBLE (1300-1400 LEVEL COURSES)

### 1 HOUR CAPSTONE PROJECT OR RECITAL

MUSC-4001	Senior Recital
MUSC-4011	Senior Project

### 24 HOURS PROFESSIONAL EDUCATION

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 Behavior Management
EDUC-4131	Applied Instructional and Assessment Strategies
EDUC-4231	Critical Issues in Education
EDUC-4442	Secondary Vocal Music Methods
EDUC-4818	Student Teaching in the Elementary and Secondary Schools

### 3 HOURS OF PSYCHOLOGY

PSYC-3523	Developmental Psychology
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### 4 HOURS MUSIC METHODS

EDUC-4422	Elementary Music Methods
EDUC-4442	Secondary Vocal Music Methods

### FOREIGN LANGUAGE COMPETENCY

Choose One:  
High School Foreign Language – 2 years of same language with a grade of “C” or better  
University credit – 3 hours foreign language or American Sign Language with a grade of “C” or better

## UNIVERSITY CORE CURRICULUM: B.M.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

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 and Contemporary Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 6 HOURS

PSYC-1113	General Psychology I
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PSYC-3523	Developmental Psychology
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### GREAT WORKS, ADDITIONAL, 3 HOURS

ARTS-2013	Intro to Visual Arts
COMM-2023	History of Theater
ENGL-2213	English Literature

### NON-WESTERN CIVILIZATION, 3 HOURS

MUSC-3213	Perspectives in World Music
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\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN GAMING & 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 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 his or her 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 his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

#### 15 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
or	
ARTS-1213	Figure Drawing

#### 30 HOURS GAMING & 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 & 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 BUSINESS ELECTIVES

ARTS-3773	Business of Branding Yourself
or	
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	Illustration I
ARTS-4333	Commercial Studio Photography
ARTS-4523	Illustration II
CMSC-1113	Programming I
CMSC-1123	Programming II
MUSC-4813	Audio For Gaming

#### RECOMMENDED

Take COMM-3703 as the Liberal Arts Core Requirements.

#### SUGGESTED MINORS

Art  
Computer Science  
General Business  
Graphic Design  
Interior Architecture  
Management Marketing  
Music

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

appropriate to major

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

#### MUSC-2013 Music Appreciation

MUSC-3213	Perspectives in World Music
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#### SCIENCE, 6 HOURS

One course must include a lab

#### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

#### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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#### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

#### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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#### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

#### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

## 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 an understanding of the role of faith in his or her 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 his or her discipline.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 Graphic Design
ARTS-2233	Typography Visual Language
ARTS-3243	Graphic Design
ARTS-3253	Print and Social Media Design
ARTS-3263	Advanced Graphic Design
ARTS-3333	History of Design
ARTS-3513	Graphic Arts Production
ARTS-3523	Illustration I
ARTS-4253	Integrated Marketing Design
ARTS-4523	Illustration II

### 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

Business  
Communication Studies (videography and photography)  
English Writing (copywriting and content writing)  
Gaming and Animation  
Marketing

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS
PSYC-1113    General Psychology

### GREAT WORKS, ADDITIONAL, 3 HOURS Choose 3 hours from list on the left

<b>WESTERN CIVILIZATION, 3 HOURS</b>	
<b>HIST-2923</b>	Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

# DIVISION OF

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# LANGUAGE, LITERATURE, AND COMMUNICATION

## AREAS OF STUDY

Communication (COMM)  
English (ENGL)  
French (FRNC)  
German (GERM)  
Interdisciplinary Studies  
Japanese (JAPN)  
Spanish (SPAN)

## DEGREES OFFERED

B.A. Degree in English  
B.A. Degree in English/Pre-Law  
B.A. Degree in English/Teaching English as a Foreign Language (TEFL)  
B.A. Degree in English/Writing  
B.A. Degree in Interdisciplinary Studies  
B.A. Degree in Performing Arts Management  
B.A. Degree in Spanish  
B.S. Degree in Interdisciplinary Studies  
B.S. Degree in Journalism  
B.S. Degree in Film and Media Production  
B.S. Degree in Public Relations and Social Media  
B.S. Degree in Motion Media Design  
B.S. Degree in Public Communication and Leadership

## MINORS

Communication Studies  
English  
International Studies  
Leadership  
Mass Communication  
Media Production  
Military Science  
Performing Arts Management  
Spanish  
Teaching English as a Foreign Language (TEFL)  
Writing

## FACULTY

Cami Agan, Ph.D., Professor of English  
David Jurney, M.B.A., Instructor of Communication  
Scott LaMascus, Ph.D., Professor of English  
David Lowry, Ph.D., Professor of Communication  
Travis Montgomery, Ph.D., Associate Professor of English  
Gail Nash, Ph.D., Chair, Division of Language, Literature, and Communication  
Professor of English  
Philip Patterson, Ph.D., Distinguished Professor of Communication  
Nathan Shank, Ph.D., Assistant Professor of English  
Brian Simmons, Ph.D., Chair, Communication Program, Professor of  
Communication and Honors  
Tina Ware, Ph.D., Professor of Spanish  
Josh Watson, Ph.D., Associate Professor of Communication

## LOCATION

Garvey Center for the Liberal Arts  
Mabee Communication Wing

## DEAN

Charles Rix, Ph.D., Dean of the College of Humanities and Bible, Associate  
Professor of Bible



## B.A. DEGREE IN ENGLISH 42 HOURS, MINOR REQUIRED, PLUS 6 HOURS OF SAME FOREIGN LANGUAGE



The English major must meet all the general requirements for the B.A. degree. The major consists of 42 hours of English beyond freshman English composition.

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 to the world of ideas.
6. Articulation of and engagement in the personal integration of faith and learning.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 9 HOURS FOUNDATION

ENGL-2223	Introduction to Writing About Literature
ENGL-3013	Literary Criticism
ENGL-4213	Studies in Shakespeare

### 9 HOURS ENGLISH LITERATURE

ENGL-3153	English Literature Survey I, 680-1600
ENGL-3253	English Literature Survey II, 1600-1780
ENGL-3353	English Literature Survey III, 1780-Present

### 6 HOURS AMERICAN LITERATURE

ENGL-3673	American Literature Survey I, Before 1865
ENGL-3773	American Literature Survey II, 1865-Present

### 6 HOURS WORLD LITERATURE

ENGL-3123	World Literature I, Classical to Renaissance
ENGL-3133	World Literature II, Renaissance to Modern

### 9 HOURS LITERATURE ELECTIVES

3000-level or above

### 3 HOURS SENIOR CAPSTONE

ENGL-4733	Senior Capstone
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### 6 HOURS SAME FOREIGN LANGUAGE

Take 6 hours of the same foreign language

### PRE-LAW EMPHASIS

The course requirements for the English Pre-Law emphasis are the same as for the regular B.A. in English. However, students should consult with their advisors to determine which courses will best support the pre-law emphasis.

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation

### MUSC-3213 Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions

MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN ENGLISH/TEACHING ENGLISH AS A FOREIGN LANGUAGE 39 HOURS, MINOR REQUIRED, PLUS 6 HOURS OF SAME FOREIGN LANG.



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. Demonstrate an awareness of and appreciation for the diversities among people around the world.
5. Engage in and articulate a personal integration of faith and learning.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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

### 6 HOURS CHOSEN FROM THE FOLLOWING

Any upper division ENGL or SPAN course not already taken.

### 6 HOURS SAME FOREIGN LANGUAGE

Take 6 hours of the same foreign language

### 3 HOURS ENGLISH GATEWAY

ENGL-2223	Introduction to Writing About Literature
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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
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## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation

MUSC-3213	Perspectives in World Music
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions

MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN ENGLISH/WRITING 42 HOURS, MINOR REQUIRED, PLUS 6 HOURS OF SAME FOREIGN LANGUAGE



The B.A. degree in English/Writing is designed to develop professional writing skills to prepare graduates for a variety of careers. Since writing well is essential in business and education, and since many graduate and professional schools demand exceptional composition skills, many students will want to combine a major or minor with other professional training.

An OC graduate with a Bachelor of Arts degree in English/Writing will:

1. Think both critically and creatively.
2. Demonstrate the ability to understand, interpret, and evaluate works of literature (from the earliest texts to current best sellers), as well as his or her own work.
3. Demonstrate competence in various types of writing that prepares him or her for graduate school and/or a job in technical writing, editing, creative writing, journalistic writing, and countless other types of professional writing.
4. Demonstrate the awareness of the power of words and language and the responsibility that accompanies the ability to use words and language in a positive way.
5. Demonstrate an awareness of and appreciation for the diversities among people across the globe.
6. Embrace and articulate personal integration of faith and learning.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 3 HOURS ENGLISH GATEWAY

ENGL-2223 Introduction to Writing About Literature

This course must be completed before enrolling in upper level Literature courses.

### 6 HOURS CREATIVE WRITING

ENGL-3523 Creative Writing I

ENGL-3533 Creative Writing II

### 3 HOURS ADVANCED WRITING

ENGL-3813 Advanced Writing

### 3 HOURS TECHNICAL WRITING

ENGL-3493 Technical Writing

### 6 HOURS JOURNALISM CHOSEN FROM

COMM-2723 Narrative Storytelling

COMM-3233 Managing Social Media

COMM-3823 Long Form Writing and Producing

ENGL-4873 Writing Internship

### 3 HOURS SENIOR CAPSTONE

ENGL-4733 Senior Capstone

### 6 HOURS FOREIGN LANGUAGE

Take 6 hours of the same foreign language

### 12 HOURS 3000 OR ABOVE LEVEL LITERATURE COURSES

### 6 HOURS GRAMMAR AND LINGUISTICS

ENGL-3313 Introduction to Linguistics

ENGL-3713 Structures of the English Language

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

ENGL-1113 English Composition I

ENGL-1213 English Composition II

COMM-1213 Oral Communication

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew

BIBL-1312 Life of the Early Church: Acts

BIBL-2202 Story of the Old Testament

BIBL-2302 Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

### POLITICAL SCIENCE, 3 HOURS

POLS-2113 Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

HIST-1223 Turning Points in U.S. History

### GREAT WORKS, 6 HOURS

ARTS-2013 Survey of Visual Culture

ARTS-2423 History of Photography & Motion Pictures

COMM-2023 History of Theater

MATH-2123 The History of Mathematics

MUSC-2013 Music Appreciation

MUSC-3213 Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113 General Psychology I

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923 Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113 Elements of Human Geography

GEOG-2213 World Regional Geography

HIST-2613 The Modern Middle East

MISS-3513 World Religions

MISS-3613 Cultural Anthropology

MISS-3673 New Religious Movements

MUSC-3213 Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN INTERDISCIPLINARY STUDIES 60 HOURS, INCLUDING 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 his or her place in it. This 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, music, and communication departments.

Each student will design a program with the aid of an advisor and submit the program proposal to the chair of the program of Communication for approval. The program must be approved by the interdisciplinary studies committee, composed of the student's advisor, the chair of the program of Communication, and the Registrar. Usually, the program is submitted during the sophomore year.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 60 HOURS, 39 OF WHICH MUST BE 3000/4000 LEVEL COURSES

#### COURSES ARE TO BE DIVIDED AMONG THREE AREAS

At least one of which must be in the humanities such as Art, Bible, History, English, Music, or Speech

#### MINIMUM 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 REACHING 96 HOURS.

#### THE STUDENT MUST MEET MINIMUM HOURS OF 126 IN ORDER TO GRADUATE.

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

Appropriate to major

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew  
BIBL-1312 Life of the Early Church: Acts  
BIBL-2202 Story of the Old Testament  
BIBL-2302 Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

#### POLITICAL SCIENCE, 3 HOURS

POLS-2113 Introduction to American Government

#### AMERICAN HISTORY, 3 HOURS

HIST-1223 Turning Points in U.S. History

#### GREAT WORKS, 6 HOURS

should include literature  
ARTS-2013 Survey of Visual Culture  
ARTS-2423 History of Photography & Motion Pictures  
COMM-2023 History of Theater

ENGL-2213 Perspectives in Literature  
MATH-2123 The History of Mathematics  
MUSC-2013 Music Appreciation  
MUSC-3213 Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113 General Psychology I

#### WESTERN CIVILIZATION, 3 HOURS

HIST-2923 Perspectives in Western Civilization

#### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113 Elements of Human Geography  
GEOG-2213 World Regional Geography  
HIST-2613 The Modern Middle East  
MISS-3513 World Religions  
MISS-3613 Cultural Anthropology  
MISS-3673 New Religious Movements  
MUSC-3213 Perspectives in World Music

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.A. DEGREE IN SPANISH 30 HOURS, MINOR REQUIRED, PLUS 6 HOURS OF SAME FOREIGN LANG.



The Spanish major must meet all general requirements for the B.A. degree. The major consists of 30 hours of Spanish beyond Basic Spanish I and II.

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

1. Demonstrate proficiency in speaking, reading, and writing in the Spanish language to participate in fluid conversations with native speakers of Spanish, read and understand prose and poetry in the target language, and write research papers and essays in Spanish.
2. Have an awareness and appreciation of the cultures of Spanish-speaking countries including the customs, religion, and general way of life of their own country as it compares with that of Spanish speaking countries and important Hispanic authors, movements, and historical events.
3. Have familiarity with the structure of the Spanish language, including the grammar of their native language as it compares with that of Spanish, and have the ability to use all verb tenses in Spanish interchangeably.
4. Engage in and articulate a personal integration of faith and learning.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 9 HOURS LITERATURE

SPAN-3213	Spanish Literary Readings
SPAN-4113	Studies in Spanish Literature
SPAN-4213	Studies in Latin American Literature

### 3 HOURS ADVANCED CONVERSATION AND GRAMMAR

### 3 HOURS HISPANIC CIVILIZATION

SPAN-3223	Hispanic Civilization
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### 9 HOURS 2000/3000/4000 SPANISH ELECTIVES

### 3 HOURS SPANISH IMMERSION LAB

SPAN-4711	Spanish Immersion Lab
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This course must be taken three times.

### 3 HOURS SENIOR CAPSTONE

ENGL-4733	Senior Capstone
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Successful completion of Senior Capstone meets the requirements for all strands of Language and Literature majors.

### 6 HOURS FOREIGN LANGUAGE

Take 6 hours of the same foreign language other than Spanish.

A student majoring in Spanish should work with his or her advisor to select the minor that will be most beneficial. Art, history, international studies, and communication are often beneficial to a Spanish major.

### FOREIGN LANGUAGE PROFICIENCY

The necessary courses for foreign language proficiency in a particular language include those required for the student's preferred degree plus a minimum of 12 hours in the same foreign language, or the equivalent of courses up through Intermediate II in the same language. Students will be required to participate in a university approved field experience, which will include some sort of immersion into the language for which a student seeks a proficiency credit, after taking a minimum of 6 hours in the language. The student must write a one-page description of his or her time abroad explaining how he or she will use this language and have it approved by the Language and Literature Department PRIOR to departure. In addition, the student must indicate a sponsor who will verify (after the student's return) his/her use of the target language. Practicum requirements may be accomplished by taking part in a spring break or summer mission trip to a country where this language is predominate.

## UNIVERSITY CORE CURRICULUM: B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

Appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2213	History of Theater
ENGL-2213	English Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation

MUSC-3213	Perspectives in World Music
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements

MUSC-3213	Perspectives in World Music
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\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN FILM AND MEDIA PRODUCTION 55 HOURS



An OC graduate with a Bachelor of Science degree in Film and Media Production will:

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance career, family, church, and community successfully.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals of research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able to pursue successfully a career as an independent video producer or as a member of a media team in a corporation or be able to pursue successfully graduate studies.
8. Operate within legal frameworks and guidelines of media.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours

### 10 HOURS MASS COMMUNICATION FOUNDATION

COMM-2613	Media, Faith, and Culture
COMM-4631	Senior Seminar in Communication
COMM-4713	Media Law
COMM-4723	Media Ethics

### 6 HOURS EXPERIENCE:

You must take COMM-1371 or COMM-3371

Internships may be substituted for two of these hours.

### 33 HOURS CREATIVE MEDIA REQUIRED

COMM-2313	Acting for Stage and Screen
COMM-2643	Media Production
COMM-2723	Narrative Storytelling
COMM-3213	Directing for Stage and Screen
COMM-3343	Campaigns

COMM-3633	Audio and Sound Design
COMM-3653	Film and Location Editing
COMM-3703	Motion Graphics
COMM-3823	Journalistic Storytelling I
COMM-4763	Advanced Media Production
MGMT-3323	Entrepreneurship and Small Business Management

### 6 HOURS ART REQUIRED

ARTS-1103	Digital Imaging I
COMM-3143	Basics of Visual Communication Design

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

#### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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#### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

#### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.



## 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 his or her place in it. This 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, music, and communication departments.

Each student will design a program with the aid of an advisor and submit the program proposal to the chair of the program of Communication for approval. The program must be approved by the interdisciplinary studies committee, composed of the student's advisor, the chair of the program of Communication, and the Registrar. Usually, the program is submitted during the sophomore year.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 60 HOURS, 39 OF WHICH MUST BE 3000/4000 LEVEL COURSES

#### COURSES ARE TO BE DIVIDED AMONG THREE AREAS

at least one of which must be in the humanities such as Art, Bible, History, English, Music, or Speech

#### MINIMUM 9 HOURS OF 3000/4000 LEVEL CLASSES IN EACH AREA

#### A STUDENT MUST DECLARE A MAJOR IN INTERDISCIPLINARY STUDIES BEFORE REACHING 96 HOURS.

#### THE STUDENT MUST MEET MINIMUM HOURS OF 126 IN ORDER TO GRADUATE.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

appropriate to major

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew  
BIBL-1312 Life of the Early Church: Acts  
BIBL-2202 Story of the Old Testament  
BIBL-2302 Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

#### POLITICAL SCIENCE, 3 HOURS

POLS-2113 Introduction to American Government

#### AMERICAN HISTORY, 3 HOURS

HIST-1223 Turning Points in U.S. History

#### GREAT WORKS, 3 HOURS

should include literature  
ARTS-2013 Survey of Visual Culture  
ARTS-2423 History of Photography & Motion Pictures  
COMM-2023 History of Theater  
ENGL-2213 Perspectives in Literature

#### MATH-2123 The History of Mathematics

MUSC-2013 Music Appreciation  
MUSC-3213 Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS  
PSYC-1113 General Psychology I

GREAT WORKS, ADDITIONAL, 3 HOURS  
Choose 3 hours from list on the left

#### WESTERN CIVILIZATION, 3 HOURS

HIST-2923 Perspectives in Western Civilization

#### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113 Elements of Human Geography  
GEOG-2213 World Regional Geography  
HIST-2613 The Modern Middle East  
MISS-3513 World Religions  
MISS-3613 Cultural Anthropology  
MISS-3673 New Religious Movements  
MUSC-3213 Perspectives in World Music

#### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum see page 25.

## B.S. DEGREE IN JOURNALISM 39 HOURS, MINOR REQUIRED



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

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance career, family, church, and community successfully.
3. Be familiar with appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals of research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able to pursue successfully a career in the converged world of journalism as a reporter, producer, or editor characterized by the ability to acquire, process, and distribute newsworthy stories in formats appropriate for print, broadcast, or web.
8. Operate within legal frameworks and guidelines of media.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 10 HOURS MASS COMMUNICATION FOUNDATION

COMM-2613	Media, Faith, and Culture
COMM-4631	Senior Seminar in Communication
COMM-4713	Media Law
COMM-4723	Media Ethics

COMM-3453	Journalistic Storytelling II
COMM-3653	Film and Location Editing
COMM-3823	Long Form Writing and Production
COMM-4123	Electronic News Producing

### 5 HOURS EXPERIENCE: YOU MUST CHOOSE FROM

COMM-1351, COMM-1371 and COMM-3351, COMM-3371

### 24 HOURS JOURNALISM FOUNDATION

COMM 2643	Media Production
COMM-2513	Communication Theory
COMM-2833	Journalistic Storytelling I
COMM-3233	Managing Social Media

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 6 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## B.S. DEGREE IN MOTION MEDIA DESIGN 61 HOURS



An OC graduate with a Bachelor of Science degree in Motion Media Design will:

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance career, family, church, and community successfully.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals of research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able to pursue successfully a career in broadcast graphics, broadcast design, or other motion graphic careers.
8. Operate within legal frameworks and guidelines of media.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 10 HOURS MASS COMMUNICATION FOUNDATION

COMM-2613	Media, Faith, and Culture
COMM-4631	Senior Seminar in Communication
COMM-4713	Media Law
COMM-4723	Media Ethics

### 6 HOURS PRACTICUM-

You must take COMM-1371, COMM-3371 or COMM-4831

### 36 HOURS MEDIA MOTION DESIGN

ARTS-1103	Digital Imaging I
ARTS-2223	Introduction to Communication Design
ARTS-2233	Typography for Graphics
ARTS-2243	Interactive Media Design I
ARTS-3243	Graphic Design
COMM-2643	Media Production
COMM-2723	Narrative Storytelling
COMM-2813	Social Media and Advertising Principles
COMM-3633	Audio and Sound Design
COMM-3653	Film and Location Editing
COMM-3703	Motion Graphics
COMM-4763	Advanced Media Production

### 9 HOURS ELECTIVES

ARTS-2323	Digital Imaging II
ARTS-2743	3D Modeling I
ARTS-3173	3D Modeling and Animation II
ARTS-3253	Print and Social Media Design
ARTS-3263	Advanced Graphic Design
ARTS-3363	Photography I
ARTS-3383	Motion Imagery
ARTS-3773	Business of Branding Yourself
COMM-2413	Photographic Principles and Practices
COMM-3233	Managing Social Media
COMM-3343	Campaigns

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS	
PSYC-1113	General Psychology I

### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## B.S. DEGREE IN PUBLIC RELATIONS AND SOCIAL MEDIA 50 HOURS



An OC graduate with a Bachelor of Science degree in Public Relations and Social Media will:

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance career, family, church, and community successfully.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals of research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able to pursue successfully a master's degree in business or public relations, or to pursue a career in public relations, corporate communications, or a communications profession in an agency, firm, corporation, non-profit, sports franchise, or other organizational environment.
8. Operate within legal frameworks and guidelines of media.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 10 HOURS MASS COMMUNICATION FOUNDATION

COMM-2613	Media, Faith, and Culture
COMM-4631	Senior Seminar in Communication
COMM-4713	Media Law
COMM-4733	Communication Ethics

### 4 HOURS EXPERIENCE: YOU MUST CHOOSE FROM

COMM-1361 and COMM-3361

\*An internship may be substituted for one of these hours.

### 6 HOURS RESTRICTED ELECTIVES

ARTS-1103	Digital Imaging I
COMM-2833	Journalistic Storytelling I
COMM-3243	Planning, Organizing, and Leading Events
COMM-3323	Organizational Communication
COMM-3333	Team Communication and Leadership
COMM-4113	Persuasion and Advocacy

### 30 HOURS PUBLIC RELATIONS REQUIRED

COMM-2413	Photographic Principles and Practices
COMM-2643	Media Production
COMM-2813	Social Media and Advertising Principles
COMM-2823	Public Relations Principles and Social Media Influencer Principles
COMM-3233	Managing Social Media
COMM-3343	Campaigns
COMM-3543	Public Relations and Social Media Case Studies
COMM-3743	Public Relations and Social Media Branding
COMM-4663	Public Relations and Social Media Analytics
MKTG-3313	Principles of Marketing

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## B.S. DEGREE IN PUBLIC COMMUNICATION AND LEADERSHIP 43 HOURS, MINOR REQUIRED



An OC graduate with a Bachelor of Arts degree in Public Communication with Leadership emphasis will:

1. Learn a variety of theories related to communication and leadership and how to apply those theories in praxis.
2. Learn a variety of communicative skills, leadership skills, and techniques for the management of interpersonal relations, group leadership, and social media.
3. Explore ethical approaches to communication leadership from a Christian faith perspective.
4. Learn ethical persuasive techniques grounded in Christian faith to help them become skillful advocates for important social issues.
5. Learn how to plan, host, and conduct public forums for issues of public importance and controversial issues.
6. Learn peacemaking and conflict management skills.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 34 HOURS COMMUNICATION AND LEADERSHIP FOUNDATION

COMM-2003	Effective Leadership
COMM-2513	Communication Theory
COMM-3003	Family Communication and Leadership
COMM-3233	Managing Social Media
COMM-3243	Planning, Organizing, and Leading Events
COMM-3323	Organizational Communication
COMM-3333	Team Communication and Leadership
COMM-3353	Interpersonal Communication
COMM-4631	Senior Seminar in Communication
COMM-4113	Persuasion and Advocacy
COMM-4523	Conflict Resolution and Negotiation
COMM-4733	Communication Ethics

### 6 HOURS CHOSEN FROM

COMM-1311	Communication Practicum
COMM 2613	Media, Faith and Culture
COMM 3113	Business and Professional Communication
COMM-3413	Argumentation and Debate
COMM 4831	Communication Internship

### 3 HOURS LAW CHOSEN FROM

BUSA-3213	Business Law
COMM-4713	Media Law
POLS-4113	Constitutional Law

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature

### MATH-2123 The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS	
PSYC-1113	General Psychology I

### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by your department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## B.S.E. DEGREE IN ENGLISH EDUCATION 73 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED



The major is designed for those who plan careers in middle, junior, or 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 Bachelor of Science in Education 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 context, with the use of various theoretical methodologies, skills in applying the essential concepts of English structure and linguistics, basic skills in a foreign language (BSE - two years in high school; BA - 6 hours), exploration of and contribution to the world of ideas, and articulation of and engagement in the personal integration of faith and learning.
2. Show that he or she has acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the Oklahoma General Education Test (OGET).
3. Demonstrate an in-depth knowledge of English language and literature by achieving a 3.00 GPA in the specified major courses required for certification in English and passing the Oklahoma Subject Area Test (OSAT) in English.
4. Demonstrate that he or she has 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 PPAT Assessment, and receiving average ratings of Proficient on the Formative and Summative assessments in student teaching.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 3 HOURS ENGLISH GATEWAY

ENGL-2223 Introduction to Writing About 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, Before 1865  
ENGL-3773 American Literature Survey II, 1865-Present

### 3 HOURS LITERARY CRITICISM

ENGL-3013 Literary Criticism

### 9 HOURS ENGLISH LITERATURE

ENGL-3153 English Literature Survey I, 680-1600  
ENGL-3253 English Literature Survey II, 1600-1780  
ENGL-3353 English Literature Survey III, 1780-Present

### 3 HOURS WORLD LITERATURE CHOSEN FROM

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

Communication, Journalism, Drama

### PROFESSIONAL EDUCATION MINOR

#### 25 SEMESTER 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-3523 Developmental Psychology

### 3 HOURS METHODS

EDUC-4553 Methods of Teaching Language Arts in Sec. Schools

### FOREIGN LANGUAGE COMPETENCY; CHOOSE ONE:

High School Foreign Language – 2 years of same language with a grade of "C" or better  
University credit – 3 hours foreign language, American Sign Language with a grade of "C" or better.

## UNIVERSITY CORE CURRICULUM: B.S.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

appropriate to major

### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew  
BIBL-1312 Life of the Early Church: Acts  
BIBL-2202 Story of the Old Testament  
BIBL-2302 Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

### POLITICAL SCIENCE, 3 HOURS

POLS-2113 Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

HIST-1223 Turning Points in U.S. History

### GREAT WORKS, 3 HOURS

ARTS-2013 Survey of Visual Culture  
ARTS-2423 History of Photography & Motion Pictures  
COMM-2023 History of Theater  
MUSC-2013 Music Appreciation  
MUSC-3213 Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 6 HOURS

PSYC-1113 General Psychology I

PSYC-3523 Developmental Psychology

### LIBERAL ARTS, 6 HOURS

6 hours from any Liberal Arts area, other than current major

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## MINOR REQUIREMENTS - COLLEGE OF HUMANITIES AND BIBLE



### DIVISION OF BIBLE

#### BIBLE MINOR 25 HOURS

##### TAKE 25 HOURS OF BIBLE COURSES

Textual or non-textual; this may not include children's ministry, missions, or youth ministry courses. This includes 16 hours of the core curriculum Bible as well as 9 additional hours.

#### BIBLICAL LANGUAGES MINOR 18 HOURS

##### 18 HOURS OF GREEK AND/OR HEBREW CHOSEN FROM:

GREK-1113	Elementary Greek I
GREK-1213	Elementary Greek II
GREK-2113	Intermediate Greek I
GREK-2213	Intermediate Greek II
GREK-3113	Advanced Greek I
GREK-3213	Advanced Greek II
HBRW-1113	Elementary Hebrew I
HBRW-1213	Elementary Hebrew II
HBRW-2113	Intermediate Hebrew I
HBRW-2213	Intermediate Hebrew II
HBRW-3113	Advanced Hebrew I
HBRW-3213	Advanced Hebrew II

#### CHILDREN'S MINISTRY MINOR 18 HOURS

##### 18 HOURS CHILDREN'S MINISTRY

CMIN-1202	Introduction to Children's Ministry
CMIN-2122	Teaching the Bible to Preschoolers Birth-5 Years
CMIN-2222	Teaching the Bible to Elementary Children Grades 1-6
CMIN-3213	Curriculum Development for Children's Ministry
CMIN-3402	Leadership & Administration of Children's Ministry
CMIN-3612	Spiritual Development of Children
CMIN-4313	Volunteers, Parents, and Staff in Youth and Family Ministry
CMIN-4412	Vital Issues in Children's Ministry

#### CHURCH HISTORY MINOR 18 HOURS

##### CHOSEN FROM

BIBL-3113	The New Testament Church
BIBL-3173	Church History to 1517
BIBL-3183	Church History 1517 to Present
BIBL-4513	History of the Bible
BIBL-4713	Restoration Movement
HIST-3913	Renaissance and Reformation, 1400-1648
HIST-4613	Medieval Europe, 400-1300

#### MISSIONS MINOR 18 HOURS

##### 12 HOURS CHOSEN FROM MISSIONS COURSES OTHER THAN MISSIONS EXPERIENCE

##### 6 HOURS CHOSEN FROM THE FOLLOWING COURSES

BIBL-3013	Hermeneutics
BIBL-3113	The New Testament Church
BIBL-3713	Contemporary Ethics
BIBL-3823	Counseling for Ministers
BIBL-4713	Restoration Movement
MISS-4813	Missions Experience

#### NON-TEXTUAL BIBLE MINOR 18 HOURS

18 HOURS FROM A MINIMUM OF TWO OF THE FOLLOWING AREAS: children's ministry, church history, missions, and youth ministry

#### PREACHING MINOR 18 HOURS REQUIRED (12 HOURS)

BIBL 3013	Hermeneutics
BIBL 3913	Homiletics I
BIBL 4763	Homiletics II
BIBL 3063	Evangelism and Discipleship

#### ELECTIVES (6 HOURS, CHOOSE 2 COURSES FROM THE FOLLOWING)

BIBL-3253	Teaching the Bible
BIBL-4713	Restoration Movement
BIBL-3173	Church History to 1517
BIBL-3183	Church History from 1517 to Present
BIBL-4133	Systematic Theology

#### SOCIAL JUSTICE MINOR 18 HOURS

BIBL-2013	Introduction to Social Justice
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##### 15 HOURS CHOSEN FROM

BIBL-3063	Evangelism and Discipleship
BIBL-3121	Intentional Christian Community: Theory and Practice
BIBL-3153/MISS-3213	Gospel, Church, and Culture
BIBL-3163/MISS-3153	Urban Ministry
BIBL-3213	The Pentateuch
BIBL-3243	Old Testament Prophets 7th-5th Centuries
BIBL-4133	Systematic Theology
BIBL-4223	Jesus, Politics, and The Life of Faith
BIBL-4243	Old Testament Prophets 8th Century
BIBL-4311	Isaiah and the Civil Rights Tour
BIBL-4312	Isaiah
CMIN-3013	Ministry to the Exceptional Child
MISS/SOCI-3613	Cultural Anthropology

#### YOUTH MINISTRY MINOR 18 HOURS

##### 3 HOURS REQUIRED

BIBL-2713	Introduction to Ministry
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##### AT LEAST 6 HOURS CHOSEN FROM

YTMN-3113	Evangelism, Discipleship, and Spiritual Formation with Adolescents
YTMN-4113	Adolescent Spirituality, Morality, and Culture
YTMN-4313	Volunteers, Parents, and Staff in Youth and Family Ministry

#### 9 HOURS FROM OTHER COURSES IN YOUTH MINISTRY OR ANY COURSE IN CHILDREN'S MINISTRY

#### CHILDRENS MINISTRY CERTIFICATE 18 HOURS

CMIN-1202	Introduction to Children's Ministry
CMIN-2122	Teaching the Bible to Preschoolers Birth-5 Years
CMIN-2222	Teaching the Bible to Elementary Children Grades 1-6
CMIN-3213	Curriculum Development for Children's Ministry
CMIN-3402	Leadership & Administration of Children's Ministry
CMIN-3612	Spiritual Development of Children
CMIN-4313	Volunteers, Parents, and Staff in Youth and Family Ministry
CMIN-4412	Vital Issues in Children's Ministry

*Note: Courses counted in a Bible major or other major requiring courses listed in the College of Humanities and Bible may not be counted in a minor.*

## MINOR REQUIREMENTS - COLLEGE OF HUMANITIES AND BIBLE



### DIVISION OF EDUCATION AND BEHAVIORAL AND SOCIAL SCIENCES

#### CRIMINAL JUSTICE 3 HOURS REQUIRED

CRMJ-1003 Introduction to Criminal Justice

#### 15 HOURS OF CRIMINAL JUSTICE COURSES

#### FAMILY SCIENCE MINOR 18 HOURS

##### 18 HOURS FAMILY SCIENCE COURSES, INCLUDING AT LEAST 9 HOURS UPPER DIVISION

May also include:

PSYC-3523 Developmental Psychology

#### HISTORY MINOR 18 HOURS

##### 18 HOURS HISTORY

Including at least 9 hours numbered 3000 or above.

#### HUMAN DEVELOPMENT MINOR 18 HOURS

##### 18 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

EDUC-3723 Education of the Exceptional Child

FMST-2423 Parent-Child Relations

FMST-3313 The Family

FMST-3513 Child Welfare

PSYC-3523 Developmental Psychology

#### POLITICAL SCIENCE MINOR 18 HOURS

##### 3 HOURS REQUIRED

POLS-2113 American Government

#### 6 ADDITIONAL HOURS POLITICAL SCIENCE

#### 9 HOURS OF 3000/4000 LEVEL POLITICAL SCIENCE

#### PSYCHOLOGY MINOR 18 HOURS

##### 6 HOURS REQUIRED

PSYC-1113 General Psychology I

PSYC-2223 General Psychology II

and

12 ADDITIONAL HOURS PSYCHOLOGY TO BE DETERMINED BY THE STUDENT'S GOALS  
WITH THE APPROVAL OF THE DEPARTMENT

#### 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 9 HOURS EACH  
or

THREE AREAS WITH 6 HOURS EACH

INCLUDING AT LEAST 9 HOURS NUMBERED 3000 OR ABOVE

### SCHOOL OF EDUCATION

#### 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-3523 Developmental Psychology

#### 5 HOURS ELECTIVES FROM EDUCATION, EARLY CHILDHOOD EDUCATION, AND ELEMENTARY EDUCATION

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 the suggested course of study for students pursuing an Interdisciplinary Studies degree.

#### ALTERNATIVE CERTIFICATION 18 HOURS

The following requirements are for those persons who hold a bachelor's degree in the discipline in which the license is sought.

#### 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 APPROPRIATE METHODS COURSE

PSYC-3523 Developmental Psychology

#### 5 HOURS

From the department that houses the licensure program. Exceptions may be granted through the approval of the Chair of the School of Education.

A student who has been denied admission to Teacher Education or who has lost admission status will not be approved for alternative certification.

### DIVISION OF FINE AND PERFORMING ARTS

#### 3D MODELING & 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 & Animation II

COMM-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 & Relief

#### 3 HOURS CHOSEN FROM

ARTS-2513 Painting I

ARTS-3523 Illustration I

#### 3 HOURS ART HISTORY REQUIRED

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

## MINOR REQUIREMENTS - COLLEGE OF HUMANITIES AND BIBLE



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

### 3 HOURS CHOSEN FROM

ARTS-2513	Painting I
ARTS-3523	Illustration I

### 3 HOURS ART HISTORY REQUIRED

ARTS-3343	Ancient to Modern Art History
ARTS-3353	Contemporary Art

### 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

*Note: For B.S.E. candidates seeking a teaching minor in art, the addition of ARTS-2013: Survey of Visual Culture, which fulfills the great works requirement in the core curriculum, will allow this minor to meet the Oklahoma Provisional Level 1 course requirements.*

### 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
COMM-2643	Media Production
COMM-3633	Audio and Sound Design
COMM-3653	Film and Location Editing
COMM-3703	Motion Graphics

#### 6 HOURS REQUIRED

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

### MUSIC MINOR 18 HOURS

#### 8 HOURS BASIC MUSIC THEORY

MUSC-1023	Fundamentals of Music Theory
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 TO BE CHOSEN FROM**  
1300-1500 level courses, at least 2 hours must 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

**MUST ENROLL IN MUSC-1000 AND EARN A GRADE OF "C" OR BETTER AT LEAST THREE SEMESTERS**

## DIVISION OF LANGUAGE, LITERATURE AND COMMUNICATION

### COMMUNICATION STUDIES MINOR 18 HOURS

#### 18 HOURS SPEECH COMMUNICATION

Including at least six hours numbered 3000 or above  
Not more than 3 hours of 1300 level courses may count toward the minor. May not include COMM-1213.

### INTERNATIONAL STUDIES MINOR, 18 HOURS

#### 6 HOURS STUDY ABOARD OR 6 HOURS FOREIGN LANGUAGE

#### 6 HOURS MUST BE UPPER DIVISION

You must participate in an approved OC study abroad program. Contact Office of International Programs for a list of approved programs

or

Take 6 hours of foreign Language

and

#### 12 HOURS CHOSEN FROM APPROVED COURSES

List of approved courses available in the International Programs Office.

### LEADERSHIP MINOR, 18 HOURS

#### 9 HOURS FOUNDATION

COMM-3333	Team Communication and Leadership
COMM-4523	Conflict Resolution and Negotiation
LDSH-2003	Effective Leadership

#### 3 HOURS ETHICS CHOSEN FROM

BIBL-3913	Contemporary Ethics
BUSA-3713	Business Ethics

#### 3 HOURS MANAGEMENT/ORGANIZATION CHOSEN FROM

COMM-3323	Organizational Communication
MGMT-3113	Principles of Management

#### 3 HOURS ELECTIVES CHOSEN FROM

COMM-3003	Family Communication and Leadership
COMM-4113	Persuasion and Advocacy
LDSH-2011	Community Leadership Seminar
MGMT-4313	Organizational Behavior

### MASS COMMUNICATION MINOR 18 HOURS

#### 3 HOURS COMMUNICATION

COMM-2613	Media, Faith, and Culture
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#### 15 HOURS IN A FOCUSED AREA

Journalism, public relations, or electronic media to be worked out with the appropriate advisor.

## MINOR REQUIREMENTS - COLLEGE OF HUMANITIES AND BIBLE



### MEDIA PRODUCTION MINOR 18 HOURS

#### 13 HOURS REQUIRED

COMM-1211	Introduction to Electronic Media
COMM-3343	Campaigns
COMM-3633	Audio and Sound Design
COMM-3733	Media Marketing and Sales
COMM 4513	Administrative Aspects of Electronic Media

#### 2 HOURS WORKSHOP OR INTERNSHIP

2 additional hours of workshop or internship or an advanced production course

#### 3 HOURS CHOSEN FROM

ACCT-2113	Accounting Principles I
ECON-2113	Macroeconomics

### MILITARY SCIENCE MINOR 18 HOURS

#### 18 HOURS MILITARY SCIENCE

Including at least 9 hours numbered 3000 or above

All Military Science classes will be taken at the University of Central Oklahoma or the University of Oklahoma.

### PERFORMING ARTS MANAGEMENT MINOR 18 HOURS

#### 12 HOURS CORE

COMM-2833	Journalistic Storytelling I
ENGL-3493	Technical Writing
MGMT-3133	Principles of Management
MKTG-3313	Principles of Marketing

#### 6 HOURS ELECTIVES CHOSEN FROM

COMM-3113	Business and Professional Communication
COMM-3543	Public Relations and Social Media Case Studies
MGMT-3323	Entrepreneurship and Small Business Management
MGMT-4533	Issues in Management
MKTG-3413	Consumer Behavior
MKTG-4313	Promotional Strategies

### ENGLISH MINOR 18 HOURS

Including at least 12 hours numbered 3000 or above literature courses, excluding ENGL-1113 and ENGL-1213

#### 3 HOURS REQUIRED

ENGL-2223	Introduction to Writing about Literature
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15 HOURS ENGLISH COURSES, 12 HOURS MUST BE UPPER DIVISION LITERATURE COURSES

### SPANISH MINOR 18 HOURS

#### 18 HOURS OF SPANISH

Including at least 9 hours numbered 3000 or above.

#### SPANISH PROFICIENCY:

Any candidate for teacher licensure may achieve a Spanish Proficiency by completing one of the following:

- A minimum of 12 hours in Spanish or the equivalent of courses through Intermediate Spanish II.
- Eighteen hours in Spanish or the equivalent of two courses beyond Intermediate Spanish II.
- Four courses beyond novice-level proficiency. Additional requirements include field experience for immersion in the Spanish language (to be approved by 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.

### TEFL MINOR 18 HOURS

#### 15 HOURS

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

#### 3 HOURS CHOSEN FROM

ENGL-2333	TEFL Experience
ENGL-3493	Technical Writing
HIST-3133	Latin American Peoples
HIST-3143	Civilizations of the Pacific Rim
SOCI-3513	World Religions
SOCI-3613	Cultural Anthropology

### 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	Long Form Writing & Producing
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

### CERTIFICATE IN TEACHING ENGLISH AS A FOREIGN LANGUAGE

#### 9 HOURS

ENGL-2333	TEFL Experience
ENGL-3723	Methods of TEFL
ENGL-4863	TEFL Student Teaching Practicum

# COLLEGE OF **PROFESSIONAL STUDIES**

**Division and School of Business  
Graduate School of Business**

**Division and School of Engineering and Computer Science  
Computer Science Program  
Electrical & Computer Engineering Program  
Mathematics Program  
Mechanical Engineering Program  
Graduate School of Engineering & Computer Science**

**Division of Natural and Health Sciences  
Natural Science Program  
Medical Laboratory Science Program  
School of Nursing**

# DIVISION AND SCHOOL OF BUSINESS

## AREAS OF STUDY

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

## 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./B.S. Degrees in Finance and Mathematics  
B.B.A. Degree in Management  
B.B.A. Degree in Marketing Management w/ Advertising Emphasis  
B.B.A. Degree in Marketing Management w/ Marketing Management Emphasis  
B.B.A. Degree in Marketing Management w/ Professional Selling Emphasis  
B.B.A. Degree in Marketing Management w/ Technology Mediated Marketing Emphasis  
B.B.A. Degree in Sports Management Coaching Emphasis  
B.B.A. Degree in Sports Management Esports Emphasis  
B.B.A. Degree in Sports Management Sports Administration Emphasis  
B.B.A. Degree in Sports Management Sports Analytics Emphasis

## GRADUATE SCHOOL OF BUSINESS

M.Acc. Master of Accountancy  
M.B.A. Master of Business Administration  
For more information regarding graduate studies in the College of Business Administration, email [graduateprograms@oc.edu](mailto:graduateprograms@oc.edu)

## MINORS

Accounting  
Finance  
General Business  
Management  
Marketing Management  
Sports Management

## FACULTY

Donald V. Drew, Ed.D., Professor of Business  
Bill Goad, Ed.D., Professor of Business  
Elaine D. Kelly, M.B.A., C.P.A., Associate Professor of Accounting  
Wes McKinzie, M.A., Instructor 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  
Jeffery Simmons, D.B.A., Chair, Division and School of Business  
Professor of Business  
Burt Smith, Ed.D., C.M.E., C.Q.M., Professor of Marketing

## LOCATION

Harvey Business Center

## DEAN

Jennifer Gray, Ph.D., Dean of the College of Professional Studies, Professor of Nursing

This is an exciting time to be at Oklahoma Christian University. There seem to be no boundaries to knowledge, innovation, and technology.

The College of Business Administration 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 Administration 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 recognitions and professional accreditations given to our programs, the academic recognition of our faculty, and our commitment to facilitating a genuine learning environment. Upon graduation from OC and the College of Business Administration, students have received a general education in 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 in the College of Business Administration are accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

#### **4+1 Degree Information**

Undergraduate business students in a 4+1 degree will be allowed to apply to a College of Business Administration graduate program and admitted to College of Business Administration graduate classes if: 1) the student has 90 hours or more of undergraduate credits, 2) the student has a minimum 3.0 grade point average, and 3) the student has met all necessary course prerequisites. Continued progress toward the completion of the undergraduate business degree will be reviewed by the graduate chair.

#### **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.

##### **BUSINESS FOUNDATION REQUIREMENTS**

All B.B.A. students must complete the 46 hours of business core classes listed in the following section.

##### **SPECIALIZED OR MINOR REQUIREMENTS**

Students majoring in accounting, finance, management, and/or marketing management are required to complete specialized course work in those fields. Students majoring in business administration also must complete the requirements for a minor.

#### **GRADE REQUIREMENTS FOR B.B.A. DEGREE**

All required specialized courses in the accounting, accounting/finance, finance, management, marketing management, majors must be completed with a grade of "C" or better. To continue in the upper core, 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.

Management majors are required to make a grade of "C" or better in MGMT-3113.

Marketing Management majors are required to make a grade of "C" or better in MKTG-3313.

Accounting/Finance and Finance majors are required to make a grade of "C" or better in FINC-3313.

All students enrolling in BUSA-4513 and 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. the Accreditation Council for Business Schools and Programs (ACBSP).

## B.B.A. DEGREE IN ACCOUNTING 76 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 currently 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 MAcc or MBA program during the last semester of your senior year or taking additional undergraduate hours.

An OC graduate with a Bachelor of Business Administration degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management

MKTG-3313	Principles of Marketing
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### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 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-4513	Financial Accounting Statement Analysis

### 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
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## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

COMM-3113	Business and Professional Communication
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### STATISTICS, 3 HOURS

MATH-2913	Statistical Methods
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### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department: Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## 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 currently 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 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 9 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2113	Business Calculus
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 21 HOURS SPECIALIZED

ACCT-3113	Intermediate Accounting I
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ACCT-3213	Intermediate Accounting II
ACCT-3313	Cost Accounting
ACCT-3413	Income Taxation
ACCT-3513	Advanced Federal Taxation
ACCT-4113	Advanced Accounting I
ACCT-4413	Auditing

### 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 UPPER LEVEL BUSINESS ELECTIVES

Any upper level 3 hour business course not already taken.

### 12 HOURS SPECIALIZED FINANCE COURSES

ACCT-4513	Financial Accounting Statement Analysis
FINC-4113	Advanced Financial Management
FINC-4313	Financial Markets and Institutions
FINC-4613	Financial Modeling

### 9 HOURS SPECIALIZED FINANCE ELECTIVES CHOSEN FROM

ACCT-4213	Advanced Accounting II
FINC-3513	Money and Banking
FINC-3613	Investment Analysis
FINC-3813	Personal Finance
FINC-4123	International Finance
FINC-4513	Topics in Finance
FINC-4713	Principles of Insurance

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department  
Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.B.A. DEGREE IN BUSINESS ADMINISTRATION 52 HOURS, MINOR REQUIRED



This program is a general one, preparing the student for entry into industrial or governmental organizations, but without specialization in a specific discipline.

An OC graduate with a Bachelor of Business Administration degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 6 HOURS CHOSEN FROM

ACCT-3313	Cost Accounting
INFO-3113	Principles of Electronic Business
MGMT-4313	Organizational Behavior

### 24 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

### A MINOR OF AT LEAST 18 HOURS

The purpose of a minor is to broaden the student's educational experiences. If a minor is chosen in the area of business, it must be exclusive of the work used in the business major. Courses cannot count in both the major and the minor.

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.B.A. DEGREE IN FINANCE 76 HOURS



The finance major promotes the development of effective practitioners. Graduates go directly to the work force 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 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 9 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2113	Business Calculus
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 12 HOURS SPECIALIZED COURSES

ACCT-4513	Financial Accounting Statement Analysis
FINC-4113	Advanced Financial Management

FINC-4313	Financial Markets and Institutions
FINC-4613	Financial Modeling

### 9 HOURS SPECIALIZED FINANCE COURSES CHOSEN FROM

FINC-3513	Money and Banking
FINC-3613	Investment Analysis
FINC-3813	Personal Finance
FINC-4123	International Finance
FINC-4513	Advanced Topics in Finance
FINC-4713	Principles of Insurance

### 3 HOURS CHOSEN FROM

ACCT-3113	Intermediate Accounting I
ACCT-3413	Income Taxation
MATH-4113	Probability and Statistics

### 3 HOURS BUSINESS

ACCT-3313	Cost Accounting I
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Finance Major with an emphasis in actuarial science

For the current finance major, this would only require a mathematics minor.

Mathematics Minor:

Suggested courses: MATH 2114 – Calculus I, MATH 2214 – Calculus II, MATH 2314 – Calculus III, MATH 4113 – Probability and Statistics I, and either MATH 4213 – Probability and Statistics II or MATH 3513 – Linear Algebra

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.

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.B.A. DEGREE IN FINANCE AND B.S. DEGREE IN MATHEMATICS

## 116 HOURS



For program description and learning outcomes for the B.B.A. degree in Finance, see page 42.

For program description and learning outcomes for the B.S. degree in Mathematics, see page 65.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### B.B.A. Degree in Finance Requirements:

#### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

#### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

#### 9 HOURS MATH

MATH-1223	Mathematical Functions and Modeling*
MATH-2113	Business Calculus*
MATH-2913	Statistical Methods*

#### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

#### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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#### 12 HOURS SPECIALIZED COURSES

ACCT-4513	Financial Accounting Statement Analysis
FINC-4113	Advanced Financial Management
FINC-4313	Financial Markets and Institutions
FINC-4613	Financial Modeling

#### 9 HOURS SPECIALIZED FINANCE COURSES CHOSEN FROM

FINC-3513	Money and Banking
FINC-3613	Investment Analysis
FINC-3813	Personal Finance

FINC-4123	International Finance
FINC-4513	Advanced Topics in Finance
FINC-4713	Principles of Insurance

#### 3 HOURS CHOSEN FROM

ACCT-3113	Intermediate Accounting I
ACCT-3413	Income Taxation
MATH-4113	Probability and Statistics*

#### 3 HOURS BUSINESS

ACCT-3313	Cost Accounting I
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### B.S. Degree in Mathematics Requirements:

#### 15 HOURS LOWER DIVISION MATHEMATICS

MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2314	Calculus III
MATH-2913	Statistical Methods*

#### 16 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
MATH-4811	Seminar in Mathematics

#### 12 HOURS ANY 3000/4000 MATH NOT USED ABOVE

#### 9 HOURS ELECTIVES CHOSE FROM:

Mathematics courses numbered 1223 or higher  
Any computer science course  
Physics courses numbered 2514 or higher

Students interested in actuarial science 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.

\*These courses may be used in both majors.

## UNIVERSITY CORE CURRICULUM:

### B.B.A.&B.S.CORE-55HOURS-COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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#### SCIENCE, 6 HOURS

One course must include a lab

#### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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#### BUSINESS COMMUNICATION, 3 HOURS

COMM-3113	Business and Professional Communication
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#### STATISTICS, 3 HOURS

MATH-2913	Statistical Methods
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#### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department  
Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.B.A. DEGREE IN MANAGEMENT 73 HOURS



The Management program is oriented toward the behavioral and organizational aspects of industrial, commercial, and institutional organizations. This degree is for students preparing for a career in supervisory and management positions.

An OC graduate with a Bachelor of Business Administration degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 12 HOURS OF SPECIALIZED MANAGEMENT

MGMT-3323	Entrepreneurship and Small Business Management
MGMT-4313	Organizational Behavior
MGMT-4513	Human Resource Management
MGMT-4743	Social Entrepreneurship

### 3 HOURS REQUIRED ACCOUNTING

ACCT-3313	Cost Accounting
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### 9 HOURS ORGANIZATIONAL LEADERSHIP AND COMMUNICATION

COMM-3243	Planning and Leading Events
COMM-3323	Organizational Communication
COMM-3333	Team Communication and Leadership
COMM-3353	Interpersonal Communication
COMM-4523	Conflict Resolution and Negotiation
MGMT-4993	Internship in Management

### 3 HOURS MANAGEMENT CAPSTONE

MGMT-4533	Issues in Management
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## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department  
Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.B.A. DEGREE IN MARKETING MANAGEMENT WITH ADVERTISING 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 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

## 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

## 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

## 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

## 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

## 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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## 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

## 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

## 3 HOURS MARKETING COMMUNICATION

COMM-2113	Writing for Media
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## 9 HOURS ELECTIVES CHOSEN FROM

ARTS-3333	History of Design
COMM-3733	Media Marketing and Sales
INFO-3113	Principles of Electronic Business
MKTG-4313	Promotional Strategies
MKTG-4993	Internship in Marketing

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department  
Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# 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 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

## 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

## 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

## 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

## 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

## 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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## 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

## 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

## 3 HOURS MARKETING COMMUNICATION

COMM-2113	Writing for Media
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## 9 HOURS ELECTIVES CHOSEN FROM

COMM-3733	Media Marketing and Sales
INFO-3113	Principles of Electronic Business
MGMT-3323	Entrepreneurship and Small Business Management
MKTG-4313	Promotional Strategies
MKTG-4723	Global Marketing
MKTG-4993	Internship in Marketing
PSYC/SOCI-3413	Social Psychology
Other advisor approved course	

# UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

## COMMUNICATION, 9 HOURS

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

## MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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## REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

## BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience
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## CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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## POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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## AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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## GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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## SCIENCE, 6 HOURS

One course must include a lab

## BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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## BUSINESS COMMUNICATION, 3 HOURS

used in major	Business and Professional Communication
COMM-3113	

## STATISTICS, 3 HOURS

used in major	Statistical Methods
MATH-2913	

## LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

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

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

## 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

## 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

## 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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## 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

## 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

## 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

## 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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

## 12 HOURS PROFESSIONAL SELLING

COMM-3733	Media Marketing and Sales
MGMT-3323	Entrepreneurship and Small Business Management
PSYC/SOCI-3413	Social Psychology
3 hours of internship or advisor approved course	

# UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

## COMMUNICATION, 9 HOURS

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

## MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

## REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

## BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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## CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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## POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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## AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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## GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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## SCIENCE, 6 HOURS

One course must include a lab

## BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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## BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

## STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

## LIBERAL ARTS, 3 HOURS

3 hours as approved by the department  
Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.B.A. DEGREE IN MARKETING MANAGEMENT WITH TECHNOLOGY MEDIATED 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 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

## 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

## 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

## 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

## 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

## 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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## 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

## 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

## 3 HOURS MARKETING COMMUNICATION

COMM-2113	Writing for Media
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## 9 HOURS CHOSEN FROM

ARTS-1103	Digital Imaging I
INFO-3113	Principles of Electronic Business
MKTG-4313	Promotional Strategies
MKTG-4993	Internship in Marketing

# UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

## COMMUNICATION, 9 HOURS

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

## MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

## REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

## BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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## CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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## POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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## AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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## GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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## SCIENCE, 6 HOURS

One course must include a lab

## BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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## BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

## STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

## LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.B.A. DEGREE IN SPORTS MANAGEMENT SPORTS ADMINISTRATION EMPHASIS 73 HOURS



An OC graduate with a Bachelor of Business Administration degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 18 HOURS REQUIRED SPECIALIZED SPORTS MANAGEMENT

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

### 3 HOURS UPPER DIVISION ELECTIVE

Any upper level 3 hour business course not already taken.

### 9 HOURS SPORTS ADMINISTRATION EMPHASIS

MGMT-4313	Organizational Behavior
SPMG-4113	Sports Law
SPMG-4213	Sports Facilities and Events

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.B.A. DEGREE IN SPORTS MANAGEMENT COACHING EMPHASIS 73 HOURS



An OC graduate with a Bachelor of Business Administration degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business

MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 18 HOURS REQUIRED SPECIALIZED SPORTS MANAGEMENT

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

### 3 HOURS UPPER DIVISION ELECTIVE

Any upper level 3 hour business course not already taken.

### 9 HOURS COACHING EMPHASIS

EXSC-1013	Introduction to Exercise Science
EXSC-3043	Strength and Conditioning
SPMG-3233	Theory of Coaching

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

COMM-3113	Business and Professional Communication
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### STATISTICS, 3 HOURS

MATH-2913	Statistical Methods
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### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.B.A. DEGREE IN SPORTS MANAGEMENT ESPORTS EMPHASIS 73 HOURS



An OC graduate with a Bachelor of Business Administration degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 18 HOURS REQUIRED SPECIALIZED SPORTS MANAGEMENT

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

### 3 HOURS UPPER DIVISION ELECTIVE

Any upper level 3 hour business course not already taken.

### 9 HOURS ESPORTS EMPHASIS

ARTS-1123	Culture of Esports and Gaming
ARTS-3393	Game History and Development
COMM-3333	Team Communication and Leadership

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.B.A. DEGREE IN SPORTS MANAGEMENT SPORTS ANALYTICS EMPHASIS 73 HOURS



An OC graduate with a Bachelor of Business Administration degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 24 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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 18 HOURS REQUIRED SPECIALIZED SPORTS MANAGEMENT

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

### 3 HOURS UPPER DIVISION ELECTIVE

Any upper level 3 hour business course not already taken.

### 9 HOURS SPORTS ANALYTICS EMPHASIS

FINC-4613	Financial Modeling
INFO-3223	Data Visualization With Tableau
SPMG-3323	Sports Analytics

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

COMM-3113	Business and Professional Communication
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### STATISTICS, 3 HOURS

MATH-2913	Statistical Methods
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### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# GRADUATE SCHOOL OF BUSINESS

## AREAS OF STUDY

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

## DUAL DEGREES OFFERED

M.Acc. . Degree in Accounting  
B.B.A. Degree in Accounting  
M.B.A. Degree in Marketing  
B.B.A. Degree in Marketing Management

## FACULTY

Donald V. Drew, Ed.D., Professor of Business  
Bill Goad, Ed.D., Professor of Business  
Kenneth Johnson, D.B.A., Chair, Graduate School of Business, Associate  
Professor of Accounting  
Elaine Kelly, M.B.A., C.P.A., Associate Professor of Accounting  
Wes McKinzie, M.A., Instructor 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  
Jeffery Simmons, D.B.A., Chair, Division and School of Business, Professor  
of Business  
Burton Smith, Ed.D., Professor of Marketing

## ADMISSIONS REQUIREMENTS

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

- Be a current accounting major with a minimum 3.25 overall grade

point average and a minimum 3.5 major grade point average and

- Apply prior to taking 90 hours in undergraduate studies (not including prior learning credits, AP credits etc).

## Student Financial Status

A student in a dual undergraduate/graduate degree program is considered a graduate student when he/she has completed 8 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](http://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. DEGREE IN ACCOUNTING & M.ACC. DEGREE IN ACCOUNTING 73 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.B.A., see page 83.

For program description and learning outcomes for the M.B.A. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree, Elective hours may be needed to reach 126 hours.

### B.B.A. Degree Requirements:

#### 13 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
BUSA-1211	Introduction to Business
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

#### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

#### 21 HOURS UPPER DIVISION

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

#### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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#### 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-4513	Financial Accounting Statement Analysis

#### 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*

#### 6 HOURS REQUIRED

ACCT-3313	Cost Accounting
INFO-3613	Management Information System

### M.Acc. Degree Requirements:

#### ACCOUNTING FOUNDATION STUDIES, 18 HOURS

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

#### BUSINESS REQUIRED, 12 HOURS

BUSA-5203	Economic Issues
BUSA-5213	Legal and Regulatory Issues
FINC-5103	Financial Services
MGMT-5603	Ethics, Decision Making, and Communication

\*Up to 3 hours of these undergraduate requirements should be satisfied by graduate accounting course work. Three undergraduate elective hours may be satisfied by accounting graduate course work.

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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#### SCIENCE, 6 HOURS

One course must include a lab

#### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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#### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

#### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

#### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.B.A. DEGREE IN MARKETING MGMT W/ ADVERTISING EMP. 73 UG HRS M.B.A. DEGREE IN MARKETING MGMT 30 GRADUATE HRS



For program description and learning outcomes for a B.B.A., see page 89.

For program description and learning outcomes for the M.B.A. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree, Elective hours may be needed to reach 126 hours.

## 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

## 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

## 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

## 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

## 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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## 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

## 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

## 3 HOURS MARKETING COMMUNICATION

COMM-2113	Writing for Media
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## 9 HOURS ELECTIVES CHOSEN FROM

ARTS-3333	History of Design
COMM-3733	Media Marketing and Sales
INFO-3113	Principles of Electronic Business
MKTG-4313	Promotional Strategies
MKTG-4993	Internship in Marketing

## M.B.A. Degree Requirements:

### BUSINESS LEVELING (0-12 HOURS)

BUSA-5013	Economic and Quantitative Analysis
BUSA-5023	Marketing and the Legal Environment
BUSA-5033	Accounting and Financial Resources
BUSA-5043	Organizational and Operations Management

### BUSINESS FOUNDATION STUDIES (27 HOURS)

ACCT-5103	Accounting Analytics
BUSA-5203	Managerial Economics
BUSA-5213	Legal and Regulatory Issues
FINC-5103	Financial Management
INFO-5303	Information Technology and the Future
MGMT-5603	Managerial Ethics
MGMT-5613	Leader Effectiveness
MGMT-5653	Strategic Management
MKTG-5703	Marketing Management

### 9 HOURS MARKETING ELECTIVES CHOSEN FROM

MKTG-5713	The Sales Process and Ethical Influence
MKTG-5743	International Marketing
MKTG-5753	E-Commerce Marketing and Management
MKTG-5763	Digital Marketing

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab	
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### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department	
Communication, English, Fine Arts, Foreign Language, History, Math, Science	

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.B.A. DEGREE IN MARKETING MANAGEMENT WITH MARKETING MGMT EMPHASIS - 73 UG HOURS, M.B.A. DEGREE 30 GRADUATE HOURS



For program description and learning outcomes for a B.B.A., see page 89.

For program description and learning outcomes for the M.B.A. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree, Elective hours may be needed to reach 126 hours.

### 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

### 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

### 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

### 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

### 3 HOURS MARKETING COMMUNICATION

COMM-2113	Writing for Media
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### 9 HOURS ELECTIVES CHOSEN FROM

COMM-3733	Media Marketing and Sales
INFO-3113	Principles of Electronic Business
MGMT-3323	Entrepreneurship and Small Business Management
MKTG-4313	Promotional Strategies
MKTG-4723	Global Marketing
MKTG-4993	Internship in Marketing
PSYC/SOCI-3413	Social Psychology
Other advisor approved course	

## M.B.A. Degree Requirements:

### BUSINESS LEVELING (0-12 HOURS)

BUSA-5013	Economic and Quantitative Analysis
BUSA-5023	Marketing and the Legal Environment
BUSA-5033	Accounting and Financial Resources
BUSA-5043	Organizational and Operations Management

### BUSINESS FOUNDATION STUDIES (27 HOURS)

ACCT-5103	Accounting Analytics
BUSA-5203	Managerial Economics
BUSA-5213	Legal and Regulatory Issues
FINC-5103	Financial Management
INFO-5303	Information Technology and the Future
MGMT-5603	Managerial Ethics
MGMT-5613	Leader Effectiveness
MGMT-5653	Strategic Management
MKTG-5703	Marketing Management

### 9 HOURS MARKETING ELECTIVES CHOSEN FROM

MKTG-5713	The Sales Process and Ethical Influence
MKTG-5743	International Marketing
MKTG-5753	E-Commerce Marketing and Management
MKTG-5763	Digital Marketing

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab	
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### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department	
Communication, English, Fine Arts, Foreign Language, History, Math, Science	

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.B.A. DEGREE IN MARKETING MGMT WITH PROFESSIONAL SELLING EMPHASIS - 73 UG HOURS, M.B.A. DEGREE 30 GRADUATE HOURS



For program description and learning outcomes for a B.B.A., see page 89.

For program description and learning outcomes for the M.B.A. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree, Elective hours may be needed to reach 126 hours.

## 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

## 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

## 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

## 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

## 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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## 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

## 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

## 12 HOURS PROFESSIONAL SELLING

COMM-3733	Media Marketing and Sales
MGMT-3323	Entrepreneurship and Small Business Management
PSYC/SOCI-3413	Social Psychology
3 hours of internship or advisor approved course	

## M.B.A. Degree Requirements:

### BUSINESS LEVELING (0-12 HOURS)

BUSA-5013	Economic and Quantitative Analysis
BUSA-5023	Marketing and the Legal Environment
BUSA-5033	Accounting and Financial Resources
BUSA-5043	Organizational and Operations Management

### BUSINESS FOUNDATION STUDIES (27 HOURS)

ACCT-5103	Accounting Analytics
BUSA-5203	Managerial Economics
BUSA-5213	Legal and Regulatory Issues
FINC-5103	Financial Management
INFO-5303	Information Technology and the Future
MGMT-5603	Managerial Ethics
MGMT-5613	Leader Effectiveness
MGMT-5653	Strategic Management
MKTG-5703	Marketing Management

### 9 HOURS MARKETING ELECTIVES CHOSEN FROM

MKTG-5713	The Sales Process and Ethical Influence
MKTG-5743	International Marketing
MKTG-5753	E-Commerce Marketing and Management
MKTG-5763	Digital Marketing

# UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

## COMMUNICATION, 9 HOURS

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

## MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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## REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

## BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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## CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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## POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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## AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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## GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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## SCIENCE, 6 HOURS

One course must include a lab	
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## BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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## BUSINESS COMMUNICATION, 3 HOURS

COMM-3113	Business and Professional Communication
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## STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

## LIBERAL ARTS, 3 HOURS

3 hours as approved by the department	
Communication, English, Fine Arts, Foreign Language, History, Math, Science	

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.B.A. DEGREE IN MARKETING MGMT W/ TECHNOLOGY MEDIATED MKTG EMPHASIS-73 UG HOURS, 30 M.B.A. DEGREE GRADUATE HOURS



For program description and learning outcomes for a B.B.A., see page 89.

For program description and learning outcomes for the M.B.A. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree, Elective hours may be needed to reach 126 hours.

## 1 HOUR INTRODUCTION TO BUSINESS CHOSEN FROM

BUSA-1111	Business Orientation
BUSA-1211	Introduction to Business

## 12 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

## 6 HOURS MATH

MATH-1223	Mathematical Functions and Modeling
MATH-2913	Statistical Methods

## 3 HOURS ENGLISH

ENGL-3493	Technical Writing
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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
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

## 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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## 6 HOURS REQUIRED SPECIALIZED

INFO-3613	Management Information Systems
MKTG-3513	Digital Marketing

## 12 HOURS OF SPECIALIZED REQUIRED

MKTG-3413	Consumer Behavior
MKTG-3713	Sales Management and the Sales Process
MKTG-4513	Marketing Research
MKTG-4613	Marketing Management

## 3 HOURS MARKETING COMMUNICATION

COMM-2113	Writing for Media
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## 9 HOURS CHOSEN FROM

ARTS-1103	Digital Imaging I
INFO-3113	Principles of Electronic Business
MKTG-4313	Promotional Strategies
MKTG-4993	Internship in Marketing

## M.B.A. Degree Requirements:

### BUSINESS LEVELING (0-12 HOURS)

BUSA-5013	Economic and Quantitative AnalysisX
BUSA-5023	Marketing and the Legal Environment
BUSA-5033	Accounting and Financial Resources
BUSA-5043	Organizational and Operations Management

### BUSINESS FOUNDATION STUDIES (27 HOURS)

ACCT-5103	Accounting Analytics
BUSA-5203	Managerial Economics
BUSA-5213	Legal and Regulatory Issues
FINC-5103	Financial Management
INFO-5303	Information Technology and the Future
MGMT-5603	Managerial Ethics
MGMT-5613	Leader Effectiveness
MGMT-5653	Strategic Management
MKTG-5703	Marketing Management

### 9 HOURS MARKETING ELECTIVES CHOSEN FROM

MKTG-5713	The Sales Process and Ethical Influence
MKTG-5743	International Marketing
MKTG-5753	E-Commerce Marketing and Management
MKTG-5763	Digital Marketing

## UNIVERSITY CORE CURRICULUM: B.B.A. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major  
MATH-2913 Statistical Methods

### LIBERAL ARTS, 3 HOURS

3 hours as approved by the department  
Communication, English, Fine Arts, Foreign Language, History, Math, Science

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# DIVISION AND SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

## AREAS OF STUDY

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

## DEGREES OFFERED

B.S. Degree in Computer Science  
B.S. Degree in Computer Science with Business  
B.S. Degree in Computer Science with Cyber Security  
B.S. Degree in Computer Science with Gaming and Animation  
B.S. Degree in Mathematics  
B.S. Degree in Mathematics/Computer Science  
B.S./B.B.A. Degrees in Mathematics and Finance  
B.S.E. Degree in Mathematics Education  
B.S.C.E. Degree in Computer Engineering with Software Engineering  
Emphasis  
B.S.E.E. Degree in Electrical Engineering  
B.S.E.E. Degree in Electrical Engineering with Software Engineering  
B.S.M.E. Degree in Mechanical Engineering

## GRADUATE SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

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

## MINORS

Computer Science  
Software Engineering  
Engineering  
Mathematics

## FACULTY

Kenneth Bell, M.S., Assistant Professor of Electrical and Computer Engineering  
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  
Bradley J. Buxton, M.S., Assistant Professor of Mechanical Engineering  
S. David Cassel, Ph.D., P.E., Professor of Mechanical Engineering  
Curtis Coleman, M.S., Assistant Professor of Computer Science  
Paul Howard, Ph.D., Professor of Mathematics  
Don Leftwich, M.A., Associate Professor of Mathematics and Computer Science  
Steve Maher, M.S.E.E., Associate Professor of Electrical and Computer  
Engineering  
Monica Muza, M.S., Instructor of Mathematics  
Robert Nix, Ph.D., Associate Professor of Computer Science  
David North, M.S., Chair, Computer Science, Associate Professor of Computer  
Science  
Steve Maher, M.S.E.E., Associate Professor of Electrical and Computer  
Engineering  
Byron Newberry, Ph.D., Associate Chief Academic Officer, Chair, Division and  
School of Engineering and Computer Science, Professor of Mechanical  
Engineering  
Kevin Plumlee, Ph.D., Department Chair of Mechanical  
Engineering, Associate Professor of Mechanical Engineering  
William Ryan, Ph.D., P.E., Professor of Engineering Sciences  
David Waldo, Ph.D., Professor of Electrical and Computer Engineering  
W. Joe Watson, M.S.E.E., P.E., Professor of Electrical and Computer Engineering  
Debra Wood, M.S.E., Assistant Professor of Mechanical Engineering

## DEAN

Jennifer Gray, Ph.D., Dean of the College of Professional Studies, Professor of  
Nursing

## B.S. DEGREE IN COMPUTER SCIENCE 81 HOURS



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

1. Be able to demonstrate understanding of and 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

### 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMPUTER SCIENCE WITH BUSINESS 82 HOURS



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

1. Be able to demonstrate understanding of and 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

### 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-3113	Principles of Electronic Business
INFO-3613	Management Information Systems
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.S. DEGREE IN COMPUTER SCIENCE WITH CYBER SECURITY 82 HOURS



An OC graduate with a Bachelor of Science degree in Computer Science with Cyber Security will:

1. Be able to demonstrate understanding of and 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 cyber security field.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken.

### 3 HOURS 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 CYBER SECURITY

CENG-3113	Data Communication & Networking
CMSC-3633	Introduction to Cyber Security
CMSC-4643	Network Security
CMSC-4653	Cloud Architecture and Security
CMSC-4663	Network Forensics

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMPUTER SCIENCE WITH GAMING AND ANIMATION 82 HOURS



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

1. Be able to demonstrate understanding of and 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

### 3 HOURS 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 ANY 3000/4000 MATH 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.

### FINANCE MINOR

#### Required Courses

ACCT 2113	Accounting Principles I
ACCT 2213	Accounting Principles II
BUSA 1211	Introduction to Business
ECON 2113	Macroeconomic Principles
FINC 3313	Principles of Finance

#### Suggested elective courses:

FINC 4113	Advanced Financial Management
FINC 3513	Money and Banking

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-2114	Calculus I with Analytical Geometry

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

**ARTS OR FOREIGN LANGUAGE, 3 HOURS**  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## 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, apply research methodologies, and learn independently.
4. Work effectively in a team environment, including the ability to describe complex ideas 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 ELECTIVE NUMBERED 3000 OR ABOVE, INCLUDING TWO OF THE FOLLOWING

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

### 21 HOURS REQUIRED

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 ANY 3000/4000 COMPUTER SCIENCE NOT USED ABOVE

### 5 HOURS SELECTED FROM ANY COMPUTER SCIENCE NOT USED ABOVE

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-2114	Calculus I with Analytical Geometry

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN MATHEMATICS AND B.B.A. DEGREE IN FINANCE 111 HOURS



For program description and learning outcomes for the B.B.A. degree in Finance, see page 42.  
For program description and learning outcomes for the B.S. degree in Mathematics, see page 65.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### B.S. Degree in Mathematics Requirements: 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 ANY 3000/4000 MATH NOT USED ABOVE

### 3 HOURS LOWER DIVISION ELECTIVES CHOSEN FROM:

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

### B.B.A. Degree in Finance Requirements: 13 HOURS LOWER DIVISION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
BUSA-1211	Introduction to Business
ECON-2113	Macroeconomic Principles
ECON-2213	Microeconomic Principles

### 9 HOURS MATH

MATH-1223	Mathematical Functions and Modeling*
MATH-2113	Business Calculus*
MATH-2913	Statistics Methods*

### 21 HOURS UPPER DIVISION

BUSA-3213	Business Law
BUSA-3713	Business Ethics

COMM-3113	Business and Professional Communication
FINC-3313	Principles of Finance
INTL-3313	International Business
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 3 HOURS CAPSTONE

MGMT-4613	Strategic Management
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### 9 HOURS SPECIALIZED COURSES

ACCT-4513	Financial Accounting Statement Analysis
FINC-4113	Advanced Financial Management
FINC-4313	Financial Markets and Institutions

### 12 HOURS SPECIALIZED FINANCE COURSES CHOSEN FROM

FINC-3513	Money and Banking
FINC-3613	Investment Analysis
FINC-3813	Personal Finance
FINC-4123	International Finance
FINC-4513	Advanced Topics in Finance
FINC-4713	Principles of Insurance

### 3 HOURS CHOSEN FROM

ACCT-3113	Intermediate Accounting I
ACCT-3413	Income Taxation
MATH-4113	Probability and Statistics I*

### 6 HOURS BUSINESS

ACCT-3313	Cost Accounting I
INFO-3613	Management Information Systems

Students interested in actuarial science 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.

\*These courses may be used in both majors.

## UNIVERSITY CORE CURRICULUM: B.S. & B.B.A. CORE - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-2114	Calculus I with Analytical Geometry

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab	
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### PSYCHOLOGY, 3 HOURS

PSYC-1113	General Psychology I
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### BUSINESS COMMUNICATION, 3 HOURS

used in major	
COMM-3113	Business and Professional Communication

### STATISTICS, 3 HOURS

used in major	
MATH-2913	Statistical Methods

### LIBERAL ARTS, 3 HOURS

used in major	
3 hours as approved by the department	
Communication, English, Fine Arts, Foreign Language, History, Math, Science	

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S.E. DEGREE IN MATHEMATICS EDUCATION 75 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED



An OC graduate with a Bachelor of Science in Education 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 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 33 HOURS REQUIRED

MATH-1623	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

### 3 HOURS CHOSEN FROM ANY 3000/4000 LEVEL MATHEMATICS COURSE

### 3 HOURS REQUIRED

CMSC-1113	Programming I
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### 3 HOURS ELECTIVES

Any other computer science course or any 3000-4000 level mathematics course not used in the major

### LICENSURE: MATHEMATICS – GRADES 6-12

### PROFESSIONAL EDUCATION MINOR

### 25 SEMESTER 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-3523	Developmental Psychology

### 3 HOURS METHODS COURSE

EDUC-4463	Methods of Teaching Mathematics in Secondary Schools
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### FOREIGN LANGUAGE COMPETENCY

Choose one:

High School Foreign Language – 2 years of same language with a grade of “C” or better

University credit – 3 hours foreign language or American Sign Language with a grade of “C” or better.

## UNIVERSITY CORE CURRICULUM: B.S.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-2114	Calculus I with Analytical Geometry

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

One course must include a lab

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### DEVELOPMENTAL PSYCH, 3 HOURS

used in major	
PSYC-3523	Developmental Psychology

### LIBERAL ARTS, 6 HOURS

6 hours from any Liberal Arts area, other than current major

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



# SCHOOL OF ENGINEERING

## 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 sub score 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

OC 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 Engineering degree. To assure that transfer credits meet departmental objectives and engineering accreditation standards, OC 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 OC Engineering.

All transfer credit is subject to individual evaluation at the discretion of the departments.

The departments 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 ELECTRICAL OR COMPUTER ENGINEERING

The upper-division computer engineering and electrical 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 Department of Electrical and Computer Engineering 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 department will communicate to those who meet the requirement before the pre-enrollment period of each spring semester (typically while in ENGR-2614 Electrical Circuit Analysis). Admittance is conditional upon successfully 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 pre-requisites with a grade of "C" or better.

Those that do not meet admittance requirements may petition the department chair and advisor to be allowed to take CENG or ELEC courses. In these cases, the ECE faculty will decide upon a remediation plan for the following year to allow the student to take a subset of CENG and ELEC 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 EE or CE degree. Those that complete the requirements at a later time may petition the department chair and advisor to be reconsidered.

Those that do not meet admittance requirements may petition the department chair and advisor to be allowed to take CENG or ELEC courses. In these cases, the ECE faculty will decide upon a remediation plan for the following year to allow the student to take a subset of CENG and ELEC 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 EE or CE degree. Those that complete the requirements at a later time may petition the department chair and advisor to be reconsidered.

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

## 94 HOURS



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

The Department of Electrical and Computer Engineering considers its primary constituents to be threefold: 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.

OC graduates with a Computer or Electrical Engineering degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 24 HOURS MATHEMATICS

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

### 8 HOURS SCIENCE

PHYS-2514	Physics I
PHYS-2614	Physics II

### 26 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-2133	Object-Oriented Programming
CMSC-4413	Operating Systems
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

### 20 HOURS COMPUTER ENGINEERING

CENG-3203	Intro to Microprocessors
CENG-3213	Computer Systems
CENG-4213	Network Engineering
CENG-4223	Embedded Systems Design
CENG-4732	Systems Design I
CENG-4743	Systems Design II
CENG-4753	Systems Design III

### 7 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3504	Signals and Systems

### 6 HOURS COMPUTER ENGINEERING ELECTIVES

CENG-4113	Software and Network Engineering
CENG-4213	Network Engineering
CENG-4233	Advanced Computer Architecture
CENG-4303	HDL Design of Microprocessors

### 3 HOURS ELECTRICAL ENGINEERING ELECTIVES

CENG-3313	Electronic Devices
CENG-3523	Digital Signal Processing

## UNIVERSITY CORE CURRICULUM: B.S.C.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
Systems used in major	
CENG-4753	Systems Design III

### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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### MATHEMATICS, 3 HOURS

used in major	
MATH-2114	Calculus I

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures

### COMM-2023

History of Theater	
Perspectives in Literature	
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major	
PHYS-2514	Physics I
PHYS-2614	Physics II

### PSYCHOLOGY, SOCIAL SCIENCES, FINE ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S.C.E. DEGREE IN COMPUTER ENGINEERING WITH SOFTWARE ENGINEERING EMPHASIS - 94 HOURS



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

The Department of Electrical and Computer Engineering considers its primary constituents to be threefold: 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.

OC graduates with a Computer or Electrical Engineering degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	ECE Mathematics I
ENGR-2123	ECE 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

### 26 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-2133	Object-Oriented Programming
CMSC-4413	Operating Systems
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

### 23 HOURS COMPUTER ENGINEERING

CENG-3203	Intro to Microprocessors
CENG-3213	Computer Systems
CENG-4113	Software and Network Engineering
CENG-4213	Network Engineering
CENG-4223	Embedded Systems Design
CENG-4732	Systems Design I
CENG-4743	Systems Design II
CENG-4753	Systems Design III

### 10 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3504	Signals and Systems
ELEC-4523	Software Engineering of Real-Time Systems

### 3 HOURS ELECTRICAL ENGINEERING ELECTIVES

CENG-3313	Electronic Devices
CENG-3523	Digital Signal Processing

## UNIVERSITY CORE CURRICULUM: B.S.C.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
ENGL-1123	English Composition II
CENG-4753	Systems Design III

### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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### MATHEMATICS, 3 HOURS

MATH-2114	Calculus I
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

PHYS-2514	Physics I
PHYS-2614	Physics II

### PSYCHOLOGY, SOCIAL SCIENCES, FINE ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

Can be used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

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

## 94 HOURS



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

### Program Educational Objectives:

The Department of Electrical and Computer Engineering considers its primary constituents to be threefold: 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.

OC graduates with an Electrical or Computer Engineering degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	ECE Mathematics I
ENGR-2123	ECE 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

### 17 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

### 3 HOURS ELECTIVE ENGINEERING AND COMPUTER SCIENCE

CMSC-1123	Programming II
ENGR-2433	Thermodynamics

### 27 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3313	Electronic Devices
ELEC-3504	Signals and Systems
ELEC-3523	Digital Signal Processing
ELEC-3613	Electromagnetic Fields
ELEC-4113	Communications Systems
ELEC-4732	Systems Design I
ELEC-4743	Systems Design II
ELEC-4753	Systems Design III

### 6 HOURS COMPUTER ENGINEERING REQUIRED

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

### 6 HOURS ELECTRICAL ENGINEERING ELECTIVES

ELEC-4323	Semiconductor Devices
ELEC-4423	Control Systems
ELEC-4523	Software Engineering of Real-Time Systems

### 3 HOURS COMPUTER ENGINEERING ELECTIVES

CENG-3213	Computer Systems
CENG-4213	Network Engineerings

## UNIVERSITY CORE CURRICULUM: B.S.E.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
Systems used in major	
CENG-4753	Systems Design III

### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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### MATHEMATICS, 3 HOURS

used in major	
MATH-2114	Calculus I

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience	
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major	
PHYS-2514	Physics I
PHYS-2614	Physics II

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

**ARTS OR FOREIGN LANGUAGE**  
3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.S.E.E. DEGREE IN ELECTRICAL ENGINEERING WITH SOFTWARE ENGINEERING EMPHASIS - 94 HOURS



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

The Department of Electrical and Computer Engineering considers its primary constituents to be threefold: 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.

OC graduates with an Electrical or Computer Engineering degree 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

## 24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	ECE Mathematics I
ENGR-2123	ECE 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

## 17 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

## 3 HOURS ELECTIVE ENGINEERING AND COMPUTER SCIENCE

CMSC-1123	Programming II
ENGR-2433	Thermodynamics

## 30 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3313	Electronic Devices
ELEC-3504	Signals and Systems
ELEC-3523	Digital Signal Processing
ELEC-3613	Electromagnetic Fields
ELEC-4113	Communications Systems
ELEC-4523	Software Engineering of Real-Time Systems
ELEC-4732	Systems Design I
ELEC-4743	Systems Design II
ELEC-4753	Systems Design III

## 9 HOURS COMPUTER ENGINEERING

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

## 3 HOURS COMPUTER ENGINEERING ELECTIVES

CENG-3213	Computer Systems
CENG-4213	Network Engineerings

## UNIVERSITY CORE CURRICULUM: B.S.E.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
ENGL-1113	Systems used in major
CENG-4753	Systems Design III

### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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### MATHEMATICS, 3 HOURS

MATH-2114	Calculus I
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience
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### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

PHYS-2514	Physics I
PHYS-2614	Physics II

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE  
3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.S.M.E. DEGREE IN MECHANICAL ENGINEERING 94-95 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 degree in Mechanical Engineering 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 standards of ethical and professional integrity.
3. Embody the Christian worldview and pursue a balanced life of scholarship, leadership, and service.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

## 21 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-3023	Engineering Probability & 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

CHEM-1313	General Chemistry for Engineers
PHYS-2514	Physics I
PHYS-2614	Physics II

## 2-3 HOURS PROGRAMMING CHOSEN FROM:

CMSC-1113	Programming I
ENGR-1132	Procedural Programming

## 20 HOURS ENGINEERING SCIENCE

ENGR-1122	Engineering Computing
ENGR-1252	Introduction to Solid Modeling
ENGR-2313	Statics
ENGR-2433	Thermodynamics I
ENGR-2523	Dynamics
ENGR-2533	Strength of Materials
ENGR-2623	ME Instrumentation
ENGR-3311	Experimental Mechanics

## 34 HOURS MECHANICAL ENGINEERING

MECH-3403	Engineering Materials
MECH-3443	Fluid Mechanics
MECH-3453	Thermodynamics II
MECH-3611	Manufacturing Processes
MECH-3813	Mechatronics
MECH-4133	Dynamic Systems and Controls
MECH-4213	Machine Design
MECH-4243	Heat Transfer
MECH-4311	Thermal-Fluids Laboratory
MECH-4523	Finite Element Analysis
MECH-4732	Systems Design I
MECH-4743	Systems Design II
MECH-4753	Systems Design III

## 6 HOURS TECHNICAL ELECTIVES CHOSEN FROM

MECH-4113	Partial Differential Equations
MECH-4143	Finite Difference Methods
MECH-4153	Principles of Additive Manufacturing
MECH-4313	Aerodynamic Design
MECH-4533	Vibrations Theory and Application
MECH-4623	Advanced Engineering Materials

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

## UNIVERSITY CORE CURRICULUM: B.S.M.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
Systems used in major	
MECH-4753	Systems Design III

### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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### MATHEMATICS, 3 HOURS

used in major	
MATH-2114	Calculus I with Analytical Geometry

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament

BIBL-2302	Story of the New Testament
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### BIBLE ELECTIVE, 5 HOURS

Take 5 hours of Bible courses, except	
Missions Experience	

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major	
PHYS-2514	Physics I
PHYS-2614	Physics II

### PSYCHOLOGY, SOCIAL SCIENCES, FINE ARTS OR FOREIGN LANGUAGE

Take 3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
Take 9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



# 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
B.S.	Degree in Computer Science with Business
B.S.	Degree in Computer Science with Cyber Security
B.S.	Degree in Computer Science w/ Gaming & Animation
M.S.C.S.	Degree in Computer Science with Cyber Security Emphasis
B.S.	Degree in Computer Science
B.S.	Degree in Computer Science with Business
B.S.	Degree in Computer Science with Cyber Security
B.S.	Degree in Computer Science w/ Gaming & Animation
M.S.C.S.	Degree in Computer Science with Data Science Emphasis
B.S.	Degree in Computer Science
B.S.	Degree in Computer Science with Business
B.S.	Degree in Computer Science with Cyber Security
B.S.	Degree in Computer Science w/ Gaming & Animation
M.S.C.S.	Degree in Computer Science with Software Eng. Emphasis
B.S.	Degree in Computer Science
B.S.	Degree in Computer Science with Business
B.S.	Degree in Computer Science with Cyber Security
B.S.	Degree in Computer Science w/ Gaming & Animation
M.S.E.Degree	
B.S.C.E.	Degree in Computer Engineering
B.S.C.E.	Degree in Computer Eng. w/ Software Eng. Emphasis
B.S.E.E.	Degree in Electrical Engineering
B.S.E.E.	Degree in Electrical Eng. w/ Software Eng. Emphasis
M.S.E.Degree	
B.S.C.E.	Degree in Computer Engineering
B.S.C.E.	Degree in Computer Eng. w/ Software Eng. Emphasis
B.S.E.E.	Degree in Electrical Engineering
B.S.E.E.	Degree in Electrical Eng. w/ Software Eng. Emphasis

## FACULTY

Kenneth Bell, M.S. Assistant Professor of Electrical and Computer Engineering  
Jeff Bigelow, Ph.D., Chair of Electrical & Computer Engineering Program, Professor of Electrical and Computer Engineering  
Jennifer Bryan, Ph.D., Chair of Mathematics Program, Professor of Mathematics  
David Cassel, Ph.D., Professor of Mechanical Engineering  
Curtis Coleman, M.S. Assistant Professor of Computer Science  
Donald Leftwich, M.A., Associate Professor of Mathematics and Computer Science  
Steven Maher, M.S.E.E., Associate Professor of Electrical and Computer Engineering

Byron Newberry, Ph.D., Associate Chief Academic Officer, Chair, Division and School of Engineering and 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 of Mechanical Engineering Program, Associate Professor of Mechanical Engineering  
David Waldo, Ph.D., Professor of Electrical and Computer Engineering  
Joe Watson, M.S.E.E., Professor of Electrical and Computer Engineering  
Debra Whietman, M.S.E., Assistant Professor of Mechanical Engineering

## Admissions 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-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 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.

## Student Financial Status

A student in a dual undergraduate/graduate degree program is considered a graduate student when he/she has completed 8 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](http://www.oc.edu/registrar).

## Master of Science in Engineering

The Graduate School of Engineering and Computer Science offers a Master of Science in Engineering (MSE) degree.  
Undergraduates who are considering the MSE should attain an undergraduate engineering degree from an ABET-accredited institution. Some consideration will be given to students with backgrounds from computer science, physics, or related fields.

For more information regarding studies in the Graduate School of Engineering and Computer Science, email [graduateprograms@oc.edu](mailto:graduateprograms@oc.edu).

## B.S. DEGREE IN COMPUTER SCI. & M.S.C.S. DEGREE IN COMP SCIENCE W/ ARTIFICIAL INTELLIGENCE EMPHASIS 72 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.S. degree in Computer Science, see page 55.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMP SCI. W/ BUSINESS & M.S.C.S. DEGREE IN COMP SCIENCE W/ ARTIFICIAL INTELLIGENCE EMPHASIS 73 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Business, see page 56.

For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 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-3113	Principles of Electronic Business
INFO-3613	Management Information Systems

MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMP SCI W/ CYBER SECURITY & M.S.C.S. DEGREE IN COMP SCI W/ ARTIFICIAL INTELLIGENCE EMPHASIS 73 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Cyber Security see page 57.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken.

#### 3 HOURS 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 CYBER SECURITY

CENG-3113	Data Communication and Networking
CMSC-3633	Introduction to Cyber Security
CMSC-4643	Network Security

CMSC-4653	Cloud Architecture and Security
CMSC-4663	Network Forensics

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMP SCI W/ GAMING & ANIM & M.S.C.S. DEGREE IN COMP SCI W/ ARTIFICIAL INTELLIGENCE EMPHASIS 73 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Gaming and Animation, see page 58.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 3 HOURS 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

#### ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



# B.S. DEGREE IN COMP SCIENCE & M.S.C.S. DEGREE IN COMP SCI W/ CYBER SECURITY EMPHASIS 72 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science, see page 55.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

## B.S. Degree Requirements:

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

### 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## M.S.C.S. Degree Requirements:

### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

### 12 HOURS CYBER SECURITY

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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.S. DEGREE IN COMP SCI W/ BUSINESS & M.S.C.S. DEGREE IN COMP SCI W/ CYBER SECURITY EMPHASIS 73 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Business, see page 56.

For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 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-3113	Principles of Electronic Business
INFO-3613	Management Information Systems
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

#### 12 HOURS CYBER SECURITY

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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

#### ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.S. DEGREE IN COMP SCI W/ CYBER SECURITY & M.S.C.S. DEGREE IN COMP SCI W/ CYBER SECURITY EMPHASIS 73 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Cyber Security, see page 57.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

## B.S. Degree Requirements:

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken.

### 3 HOURS 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 CYBER SECURITY

CENG-3113	Data Communication and Networking
CMSC-3633	Introduction to Cyber Security
CMSC-4643	Network Security
CMSC-4653	Cloud Architecture and Security
CMSC-4663	Network Forensics

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## M.S.C.S. Degree Requirements:

### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

### 12 HOURS CYBER SECURITY

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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMP SCI W/ GAMING AND ANIMATION & M.S.C.S. DEGREE IN COMP SCI W/ CYBER SECURITY EMPHASIS 73 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Gaming and Animation, see page 58.

For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 3 HOURS 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

#### 12 HOURS CYBER SECURITY

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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

#### ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMPUTER SCI. & M.S.C.S. DEGREE IN COMP SCIENCE W/ DATA SCIENCE EMPHASIS 72 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.S. degree in Computer Science, see page 55.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

MATH-1623	Introduction to Discrete Mathematics
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#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMP SCI. W/ BUSINESS & M.S.C.S. DEGREE IN COMP SCI. W/ DATA SCIENCE EMPHASIS 73 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Business, see page 56.

For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 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-3113	Principles of Electronic Business
INFO-3613	Management Information Systems
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



# B.S. DEGREE IN COMP SCI W/ CYBER SECURITY & M.S.C.S. DEGREE IN COMP SCI W/ DATA SCIENCE EMPHASIS 73 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Cyber Security, see page 57.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

## B.S. Degree Requirements:

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken.

### 3 HOURS 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 CYBER SECURITY

CENG-3113	Data Communication and Networking
CMSC-3633	Introduction to Cyber Security
CMSC-4643	Network Security
CMSC-4653	Cloud Architecture and Security
CMSC-4663	Network Forensics

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## M.S.C.S. Degree Requirements:

### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

### ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.S. DEGREE IN COMP SCI. GAMING & ANIM. & M.S.C.S. DEGREE IN COMP SCI. W/ DATA SCIENCE EMPHASIS 73 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Gaming and Animation, see page 58.

For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 3 HOURS 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC 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

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMPUTER SCI. & M.S.C.S. DEGREE IN COMP SCIENCE W/ SOFTWARE ENG. EMPHASIS 72 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.S. degree in Computer Science, see page 55.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

#### 12 HOURS SOFTWARE ENGINEERING

CMSC-5623	Software Engineering for Trustworthy Software
CMSC-5633	Patterns of Object Oriented Systems
CMSC-5733	Software Engineering Projects I
CMSC-5743	Software Engineering Projects II

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

MATH-1623	Introduction to Discrete Mathematics
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#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.S. DEGREE IN COMP SCI W/ BUSINESS & M.S.C.S. DEGREE IN COMP SCI. W/ SOFTWARE ENG. EMPHASIS 73 UG HOURS, 30 GRADUATE HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Business, see page 56.

For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

## B.S. Degree Requirements:

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

### 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-3113	Principles of Electronic Business

INFO-3613	Management Information Systems
MGMT-3113	Principles of Management
MKTG-3313	Principles of Marketing

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## M.S.C.S. Degree Requirements:

### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

### 12 HOURS SOFTWARE ENGINEERING

CMSC-5623	Software Engineering for Trustworthy Software
CMSC-5633	Patterns of Object Oriented Systems
CMSC-5733	Software Engineering Projects I
CMSC-5743	Software Engineering Projects II

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.S. DEGREE IN COMP SCI W/ CYBER SECURITY & M.S.C.S. DEGREE IN COMP SCI W/ SOFTWARE ENG. EMPHASIS 73 UG HOURS, 30 GR HOURS



For program description and learning outcomes for a B.S. degree in Computer Science with Cyber Security, see page 57.  
For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

## B.S. Degree Requirements:

### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM**  
Any upper division CMSC course not already taken.

### 3 HOURS 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 CYBER SECURITY

CENG-3113	Data Communication and Networking
CMSC-3633	Introduction to Cyber Security
CMSC-4643	Network Security
CMSC-4653	Cloud Architecture and Security
CMSC-4663	Network Forensics

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

## M.S.C.S. Degree Requirements:

### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

### 12 HOURS SOFTWARE ENGINEERING

CMSC-5623	Software Engineering for Trustworthy Software
CMSC-5633	Patterns of Object Oriented Systems
CMSC-5733	Software Engineering Projects I
CMSC-5743	Software Engineering Projects II

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

One course must include a lab

### PSYCHOLOGY, SOCIAL SCIENCES, FINE

**ARTS OR FOREIGN LANGUAGE, 3 HOURS**  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S. DEGREE IN COMP SCI. W/ GAMING & ANIMATION & M.S.C.S. DEGREE IN COMP SCI W/ SOFTWARE ENG EMPHASIS 73 UG HOURS, 30 GRADUATE HRS



For program description and learning outcomes for a B.S. degree in Computer Science with Gaming and Animation, see page 58.

For program description and learning outcomes for the M.S.C.S. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S. Degree Requirements:

#### 24 HOURS LOWER DIVISION COURSES

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 COURSES

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 COMPUTER SCIENCE CHOSEN FROM

Any upper division CMSC course not already taken, can include CENG-3113.

#### 3 HOURS 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 COMPUTER SCIENCE TEAM EXPERIENCE LOWER DIVISION

CMSC-2011	CS Team Experience I
CMSC-2011	CS Team Experience I

#### 2 HOURS COMPUTER SCIENCE TEAM EXPERIENCE UPPER DIVISION

CMSC-4011	CS Team Experience II
CMSC-4011	CS Team Experience II

### M.S.C.S. Degree Requirements:

#### 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003	Foundations of Technology Ethics and Values
CMSC-5333	Advanced Database Systems
CMSC-5343	Algorithm Analysis
CMSC-5613	Object Oriented Software Engineering

#### 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

#### 12 HOURS SOFTWARE ENGINEERING

CMSC-5623	Software Engineering for Trustworthy Software
CMSC-5633	Patterns of Object Oriented Systems
CMSC-5733	Software Engineering Projects I
CMSC-5743	Software Engineering Projects II

\*Up to 9 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 9 HOURS

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

#### MATHEMATICS, 3 HOURS

used in major	
MATH-1623	Introduction to Discrete Mathematics

#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

One course must include a lab

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS  
3 hours from these departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from any Liberal Arts area

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



# B.S.C.E. DEGREE IN COMPUTER ENGINEERING & M.S.E. DEGREE

## 88 UG HOURS, 30 GRADUATE HOURS



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

For program description and learning outcomes for the B.S.C.E. degree, see page 60.

For program description and learning outcomes for the M.S.E. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S.C.E. Degree Requirements:

#### 24 HOURS MATHEMATICS

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

#### 8 HOURS SCIENCE

PHYS-2514	Physics I
PHYS-2614	Physics II

#### 26 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-2133	Object-Oriented Programming
CMSC-4413	Operating Systems
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

#### 20 HOURS COMPUTER ENGINEERING

CENG-3203	Intro to Microprocessors
CENG-3213	Computer Systems
CENG-4213	Network Engineering
CENG-4223	Embedded Systems Design
CENG-4732	Systems Design I
CENG-4743	Systems Design II
CENG-4753	Systems Design III

#### 7 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3504	Signals and Systems

#### 6 HOURS COMPUTER ENGINEERING ELECTIVES

CENG-4113	Software and Network Engineering*
CENG-4213	Network Engineering
CENG-4233	Advanced Computer Architecture*
CENG-4303	HDL Design of Microprocessors*

#### 3 HOURS ELECTRICAL ENGINEERING ELECTIVES

ELEC-3313	Electronic Devices
ELEC-3523	Digital Signal Processing

### M.S.E. Degree Requirements:

#### 6 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003	Foundations of Technology Ethics and Values
ENGR-5203	Systems Engineering

#### 21 HOURS OF ENGINEERING ELECTIVES CHOSEN FROM:

CENG, ELEC, ENGR, OR MECH COURSES NOT ALREADY TAKEN

#### 3 HOURS CULMINATING STUDIES

ENGR-5793	M.S.E. Capstone
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\*Up to 6 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S.C.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
ENGL-1123	English Composition II
CENG-4753	Systems Design III

#### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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#### MATHEMATICS, 3 HOURS

MATH-2114	Calculus I with Analytical Geometry
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#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament

BIBL-2302	Story of the New Testament
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#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

PHYS-2514	Physics I
PHYS-2614	Physics II

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.S.C.E. DEGREE IN COMPUTER ENG. W/ SOFTWARE EMPHASIS & M.S.E DEGREE 88 UG HOURS, 30 GRADUATE HOURS



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

For program description and learning outcomes for the B.S.C.E. degree with Software Engineering Emphasis, see page 61.

For program description and learning outcomes for the M.S.E. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S.C.E. Degree Requirements:

#### 24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	ECE Mathematics I
ENGR-2123	ECE 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

#### 26 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
CMSC-1123	Programming II
CMSC-2133	Object-Oriented Programming
CMSC-4413	Operating Systems
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

#### 23 HOURS COMPUTER ENGINEERING

CENG-3203	Intro to Microprocessors
CENG-3213	Computer Systems
CENG-4113	Software and Network Engineering*
CENG-4213	Network Engineering
CENG-4223	Embedded Systems Design
CENG-4732	Systems Design I
CENG-4743	Systems Design II
CENG-4753	Systems Design III

#### 10 HOURS ELECTRICAL ENGINEERING

ELEC-3504	Signals and Systems
ELEC-3303	Analog Electronics
ELEC-4523	Software Engineering of Real-Time Systems*

#### 3 HOURS ELECTRICAL ENGINEERING ELECTIVES

ELEC-3313	Electronic Devices
ELEC-3523	Digital Signal Processing

### M.S.E. Degree Requirements:

#### 6 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003	Foundations of Technology Ethics and Values
ENGR-5203	Systems Engineering

#### 21 HOURS OF ENGINEERING ELECTIVES CHOSEN FROM:

CENG, ELEC, ENGR, OR MECH COURSES NOT ALREADY TAKEN

#### 3 HOURS CULMINATING STUDIES

ENGR-5793	M.S.E. Capstone
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\*Up to 6 ours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S.C.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
ENGL-1123	English Composition II
ENGL-2113	Systems used in major
ENGL-2123	Systems Design III

#### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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#### MATHEMATICS, 3 HOURS

MATH-2114	Calculus I with Analytical Geometry
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#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament

BIBL-2302	Story of the New Testament
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#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

PHYS-2514	Physics I
PHYS-2614	Physics II

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

#### ARTS OR FOREIGN LANGUAGE, 3 HOURS

3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.S.E.E. DEGREE IN ELECTRICAL ENGINEERING & M.S.E. DEGREE

## 85 UG HOURS, 30 GRADUATE HOURS



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

For program description and learning outcomes for the B.S.E.E. degree, see page 62

For program description and learning outcomes for the M.S.E. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S.E.E. Degree Requirements:

#### 24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	ECE Mathematics I
ENGR-2123	ECE 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

#### 20 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

#### 3 HOURS ELECTIVE ENGINEERING AND COMPUTER SCIENCE

CMSC-1123	Programming II
ENGR-2433	Thermodynamics

#### 27 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3313	Electronic Devices
ELEC-3504	Signals and Systems
ELEC-3523	Digital Signal Processing
ELEC-3613	Electromagnetic Fields
ELEC-4113	Communications Systems
ELEC-4732	Systems Design I
ELEC-4743	Systems Design II
ELEC-4753	Systems Design III

#### 6 HOURS COMPUTER ENGINEERING REQUIRED

CENG-3203	Intro to Microprocessors
CENG-4223	Embedded Systems

#### 6 HOURS ELECTRICAL ENGINEERING ELECTIVES

ELEC-4323	Semiconductor Devices*
ELEC-4423	Control Systems*
ELEC-4523	Software Engineering of Real-Time Systems*

#### 3 HOURS COMPUTER ENGINEERING ELECTIVES

CENG-3213	Computer Systems
CENG-4213	Network Engineering

### M.S.E. Degree Requirements:

#### 6 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003	Foundations of Technology Ethics and Values
ENGR-5203	Systems Engineering

#### 21 HOURS OF ENGINEERING ELECTIVES CHOSEN FROM:

CENG, ELEC, ENGR, OR MECH COURSES NOT ALREADY TAKEN

#### 3 HOURS CULMINATING STUDIES

ENGR-5793	M.S.E. Capstone
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\*Up to 6 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S.E.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
ENGL-4753	Systems Design III

#### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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#### MATHEMATICS, 3 HOURS

MATH-2114	Calculus I with Analytical Geometry
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#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament

BIBL-2302	Story of the New Testament
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#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

PHYS-2514	Physics I
PHYS-2614	Physics II

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE ARTS OR FOREIGN LANGUAGE

3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S.E.E. DEGREE IN ELECTRICAL ENG. W/ SOFTWARE EMPHASIS & M.S.E. DEGREE 88 UG HOURS, 30 GRADUATE HRS



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

For program description and learning outcomes for the B.S.E.E. degree with software emphasis, see page 63.

For program description and learning outcomes for the M.S.E. degree, please refer to the graduate catalog.

Student must complete a minimum of 126 hours including the major and core to complete the bachelor degree. Elective hours may be needed to reach 126 hours.

### B.S.E.E. Degree Requirements:

#### 24 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-2113	ECE Mathematics I
ENGR-2123	ECE 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

#### 17 HOURS ENGINEERING AND COMPUTER SCIENCE

CMSC-1113	Programming I
ENGR-1111	Introduction to Engineering
ENGR-1122	Engineering Computing
ENGR-1242	Engineering Fundamentals
ENGR-2544	Introduction to Digital Systems
ENGR-2614	Electrical Circuit Analysis
ENGR-2700	Christian Engineer Seminar
ENGR-4701	Senior Engineering Seminar

#### 3 HOURS ELECTIVE ENGINEERING AND COMPUTER SCIENCE

CMSC-1123	Programming II
ENGR-2433	Thermodynamics

#### 30 HOURS ELECTRICAL ENGINEERING

ELEC-3303	Analog Electronics
ELEC-3313	Electronic Devices
ELEC-3504	Signals and Systems
ELEC-3523	Digital Signal Processing
ELEC-3613	Electromagnetic Fields
ELEC-4113	Communications Systems
ELEC-4523	Software Engineering of Real-Time Systems*
ELEC-4732	Systems Design I
ELEC-4743	Systems Design II
ELEC-4753	Systems Design III

#### 9 HOURS COMPUTER ENGINEERING

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

#### 3 HOURS COMPUTER ENGINEERING ELECTIVES

CENG-3213	Computer Systems
CENG-4213	Network Engineering

### M.S.E. Degree Requirements:

#### 6 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003	Foundations of Technology Ethics and Values
ENGR-5203	Systems Engineering

#### 21 HOURS OF ENGINEERING ELECTIVES CHOSEN FROM:

CENG, ELEC, ENGR, OR MECH COURSES NOT ALREADY TAKEN

#### 3 HOURS CULMINATING STUDIES

ENGR-5793	M.S.E. Capstone
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\*Up to 6 hours of these undergraduate requirements should be satisfied by graduate course work.

## UNIVERSITY CORE CURRICULUM: B.S.E.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

#### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
ENGL-1123	English Composition II
ENGL-2113	Systems Design III

#### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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#### MATHEMATICS, 3 HOURS

MATH-2114	Calculus I with Analytical Geometry
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#### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament

BIBL-2302	Story of the New Testament
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#### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

#### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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#### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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#### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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#### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

#### SCIENCE, 6 HOURS

PHYS-2514	Physics I
PHYS-2614	Physics II

#### PSYCHOLOGY, SOCIAL SCIENCES, FINE

#### ARTS OR FOREIGN LANGUAGE

3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, or Spanish

#### LIBERAL ARTS, 9 HOURS

used in major  
9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# B.S.M.E. DEGREE IN MECHANICAL ENGINEERING & M.S.E. DEGREE 94-95 UG HOURS, 30 GRADUATE 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 degree in Mechanical Engineering 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 standards of ethical and professional integrity.
3. Embody the Christian worldview and pursue a balanced life of scholarship, leadership, and service.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

## 21 HOURS MATHEMATICS

ENGR-1113	Engineering Mathematics
ENGR-3023	Engineering Probability & 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

CHEM-1313	General Chemistry for Engineers
PHYS-2514	Physics I
PHYS-2614	Physics II

## 2-3 HOURS PROGRAMMING CHOSEN FROM:

CMSC-1113	Programming I
ENGR-1132	Procedural Programming

## 20 HOURS ENGINEERING SCIENCE

ENGR-1122	Engineering Computing
ENGR-1252	Introduction to Solid Modeling
ENGR-2313	Statics
ENGR-2433	Thermodynamics I
ENGR-2523	Dynamics
ENGR-2533	Strength of Materials
ENGR-2623	ME Instrumentation
ENGR-3311	Experimental Mechanics

## 34 HOURS MECHANICAL ENGINEERING

MECH-3403	Engineering Materials
MECH-3443	Fluid Mechanics
MECH-3453	Thermodynamics II
MECH-3611	Manufacturing Processes
MECH-3813	Mechatronics
MECH-4133	Dynamic Systems and Controls
MECH-4213	Machine Design
MECH-4243	Heat Transfer

MECH-4311	Thermal-Fluids Laboratory
MECH-4523	Finite Element Analysis*
MECH-4732	Systems Design I
MECH-4743	Systems Design II
MECH-4753	Systems Design III

## 6 HOURS TECHNICAL ELECTIVES CHOSEN FROM

MECH-4113	Partial Differential Equations
MECH-4143	Finite Difference Methods
MECH-4153	Principles of Additive Manufacturing*
MECH-4313	Aerodynamic Design
MECH-4533	Vibrations Theory and Application*
MECH-4623	Advanced Engineering Materials*

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

## M.S.E. Degree Requirements:

### 6 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003	Foundations of Technology Ethics and Values
ENGR-5203	Systems Engineering

### 21 HOURS OF ENGINEERING ELECTIVES CHOSEN FROM:

CENG, ELEC, ENGR, OR MECH COURSES NOT ALREADY TAKEN

### 3 HOURS CULMINATING STUDIES

ENGR-5793	M.S.E. Capstone
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\*Up to 6 hours of these undergraduate requirements should be satisfied by graduate course work..

## UNIVERSITY CORE CURRICULUM: B.S.M.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 6 HOURS

ENGL-1113	English Composition I
ENGL-1113	English Composition II
ENGL-4753	Systems Design III

### SPEECH, 3 HOURS

COMM-1213	Oral Communication
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### MATHEMATICS, 3 HOURS

MATH-2114	Calculus I with Analytical Geometry
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament

BIBL-2302	Story of the New Testament
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### BIBLE ELECTIVE, 5 HOURS

Take 5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography and Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

ENGL-2213	used in major
PHYS-2514	Physics I
PHYS-2614	Physics II

### PSYCHOLOGY, SOCIAL SCIENCES, FINE ARTS OR FOREIGN LANGUAGE

Take 3 hours from the departments: Fine Arts, Family Science, French, German, History, Japanese, Music, Political Science, Psychology, Spanish

### LIBERAL ARTS, 9 HOURS

used in major  
Take 9 hours from Math and Physics

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

# DIVISION OF NATURAL & HEALTH SCIENCES PROGRAM

## AREAS OF STUDY

Biology (BIOL)  
Biochemistry (BIOL) (CHEM)  
Biochemistry/Molecular Biology (BIOL) (CHEM)  
Chemistry (CHEM)  
General Science (GNSC)  
Medical Laboratory Science (MLSP)  
Nursing (NURS)  
Science Education (BIOL) (CHEM) (GNSC) (PHYS)  
Pre-professional programs: pre-medical, pre-dental, pre-veterinary, pre-physical therapy, pre-occupational therapy, pre-nursing, pre-pharmacy, pre-radiation technology, pre-physician associate, and pre-optometry

## DEGREES OFFERED

B.S. Degree in Biology  
B.S. Degree in Biology with Pre Medicine Emphasis  
B.S. Degree in Biochemistry  
B.S. Degree in Chemistry  
B.S. Degree in Exercise Science  
B.S. Degree in Medical Laboratory Science  
B.S.N. Degree in Nursing  
B.S.E. Degree in Science Education, Biological Science  
B.S.E. Degree in Science Education, Physical Science

## MINORS

Biology  
Chemistry  
Exercise Science  
Physical Science

## FACULTY

Sara Alcon, Ph.D., Assistant Professor of Biology  
Christopher Austin, Ph.D., Associate Professor of Physics  
Jennifer Gray, Ph.D., Dean of the College of Professional Studies, Professor of Nursing  
Christy Hallock, M.S.N., Assistant Professor of Nursing  
Dawn Hemphill, M.S.N., Assistant Professor of Nursing  
Shawna Hood, M.S., Chair, School of Nursing, Assistant Professor of Nursing  
Paul House, Ph.D., Associate Professor of Exercise Science  
Jonathan Hunt, Ph.D., Assistant Professor of Biology  
Rhea Ann Lee, M.S.N., Assistant Professor of Nursing  
Lindsey Long, Ph.D., Assistant Professor of Biology  
William Luttrell, Ph.D., Professor of Chemistry  
Courtney McCoy, M.S.N., Assistant Professor of Nursing  
Al Mikell, Ph.D., Professor of Biology

Uwe Muench, Visiting Assistant Professor of Physics  
Amanda Nichols, Ph.D., Chair, Division of Natural and Health Sciences, Professor of Chemistry  
Becky O'Neal, M.S., Assistant Professor of Nursing  
Savannah Phillips, M.S.N., Instructor of Nursing  
Trevy Rauch, M.S.N., Instructor of Nursing  
Beth Scott, M.S.N., Assistant Professor of Nursing

## DEAN

Jennifer Gray, Ph.D., Dean of the College of Professional Studies, Professor of Nursing

## ADMINISTRATION

Evelyn Paxton, M.S., MT(ASCP), Medical Lab Science Program Director

## 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 (P.T.) and occupational therapy (O.T.) programs are typically masters degree or doctorate programs. Although the requirements for admission are diverse, OC offers the prerequisites for these programs. You should check with the institution offering a P.T. or O.T. program to determine the specific prerequisites. Because of the competition for entry into P.T. and O.T. programs, many students will have to complete a bachelors degree in biology while fulfilling the specific prerequisites for entry into the P.T. or O.T. program. For students desiring to gain admission to the P.T. or O.T. programs at the University of Oklahoma Health Sciences Center, a B.S. degree must be completed.



## 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 towards 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 chemistry, biochemistry, 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 chemistry, biochemistry, 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 chemistry, biochemistry, 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 4 HOURS MATHEMATICS

MATH-2114 Calculus I with Analytical Geometry

### 8 HOURS PHYSICS WITH LABORATORY

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

### 34 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 Physical Chemistry I

CHEM-4121 Physical Chemistry Experiments 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

### 7 HOURS TECHNICAL ELECTIVES CHOSEN FROM

BIOL-1215 General Biology II: Diversity, Physiology and Ecology

BIOL-2244 Human Anatomy

BIOL-3115 Human Anatomy with Cadaver Dissection

BIOL-3224 Human Physiology

BIOL-3435 Pathogenic Microbiology

BIOL-4213 Immunology

BIOL-4411 Introduction to Research

BIOL-4412 Undergraduate Research

CHEM-2113 Introduction to Forensic Science

CHEM-3214 Analytical Chemistry II

CHEM-4213 Physical Chemistry II

CHEM-4221 Physical Chemistry Experiments II

CHEM-4313 Forensic Toxicology

CHEM-4414 Inorganic Chemistry

CHEM-4514 Forensic Analysis

CHEM-4611 Research Methods

CHEM-4612 Research Methods

CHEM-4613 Research Methods

CHEM-4713 Practicum in Forensic Science

MATH-2214 Calculus II with Analytical Geometry

Recommendations As Follows:

- a. Medical School Track — Take Immunology, Human Anatomy w/ Cadaver Dissection, and Human Physiology.
- b. Graduate School/Industry Track — Take Calculus II, Physical Chemistry II plus Lab, Analytical Chemistry II, and Technical Writing.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

ENGL-1113 English Composition I

ENGL-1213 English Composition II

COMM-1213 Oral Communication

### MATHEMATICS, 3 HOURS

used in major

MATH-2114 Calculus I with Analytical Geometry

### REQUIRED BIBLE, 8 HOURS

BIBL-1212 Life of Christ: Matthew

BIBL-1312 Life of the Early Church: Acts

BIBL-2202 Story of the Old Testament

BIBL-2302 Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions

### Experience

### CAPSTONE, 3 HOURS

BIBL-4523 Capstone: Christ and His World

### POLITICAL SCIENCE, 3 HOURS

POLS-2113 Introduction to American Government

### AMERICAN HISTORY, 3 HOURS

HIST-1223 Turning Points in U.S. History

### GREAT WORKS, 3 HOURS

should include literature

ARTS-2013 Survey of Visual Culture

ARTS-2423 History of Photography & Motion Pictures

COMM-2023 History of Theater

ENGL-2213

Perspectives in Literature

MATH-2123

The History of Mathematics

MUSC-2013

Music Appreciation

MUSC-3213

Perspectives in World Music

### SCIENCE, 6 HOURS

used in major

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113 General Psychology I

### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923 Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113 Elements of Human Geography

GEOG-2213 World Regional Geography

HIST-2613 The Modern Middle East

MISS-3513 World Religions

MISS-3613 Cultural Anthropology

MISS-3673 New Religious Movements

MUSC-3213 Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.



## B.S. DEGREE IN BIOLOGY 70-71 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 and physical 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 STATISTICS

BIOL-2913	Biostatistics
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### 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

### UPPER DIVISION BIOLOGY - NO EMPHASIS

### TECHNICAL ELECTIVES

### 22 HOURS 3000/4000 LEVEL BIOLOGY COURSES

Must include 6 lecture and 4 lab courses

Up to 4 hours can be satisfied by Undergraduate Research

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Exp

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS	
PSYC-1113	General Psychology I

### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## B.S. DEGREE IN BIOLOGY WITH PRE-MED EMPHASIS 78-79 HOURS



This major consists of four years of study in biology, biochemistry, 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 Cellular and Molecular 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 and physical 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 STATISTICS

BIOL-2913	Biostatistics
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### 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

### UPPER DIVISION BIOLOGY - PRE MED EMPHASIS

#### REQUIRED 11 HOURS

BIOL-3224	Human Physiology
BIOL-4014	Biochemistry I with Lab
BIOL-4123	Biochemistry II

#### TECHNICAL ELECTIVES

#### 11 HOURS 3000/4000 LEVEL BIOLOGY COURSES

Must include 3 lecture and 2 lab courses

Up to 4 hours can be satisfied by Undergraduate Research

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Exp

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS	
PSYC-1113	General Psychology I

### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

WESTERN CIVILIZATION, 3 HOURS	
HIST-2923	Perspectives in Western Civilization

### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## B.S. DEGREE IN CHEMISTRY 78 HOURS



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

1. Active Faith: Develop mature Christian attitudes towards scholarship, intellectual honesty, and ethical conduct that promote a life-long appreciation for learning in chemistry.
2. Foundational Knowledge: Acquire a fundamental body of knowledge in the natural sciences, emphasizing chemistry, biochemistry, and physics.
3. Information Literacy: Effectively identify, locate, and evaluate information needed for preparing a scientific paper, presentation, or project, primarily using chemistry resources.
4. Structured Reasoning: Understand the scientific method and use it to measure and evaluate experimental data in chemistry, biochemistry, 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.
7. Personal, Social, and Global Stewardship: Participate in curricular and extracurricular activities that enhance learning and preparation for careers in the natural sciences.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 12 HOURS CALCULUS

MATH-2114	Calculus I with Analytical Geometry
MATH-2214	Calculus II with Analytical Geometry
MATH-2314	Calculus III

### 11 HOURS PHYSICS AND LABORATORY

PHYS-2514	Physics I
PHYS-2614	Physics II
PHYS-3313	Modern Physics

### 43 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-3214	Analytical Chemistry II
CHEM-4014	Biochemistry I and Lab
CHEM-4113	Physical Chemistry I
CHEM-4121	Physical Chemistry Experiments I
CHEM-4213	Physical Chemistry II
CHEM-4221	Physical Chemistry Experiments II
CHEM-4414	Inorganic Chemistry

### 7 HOURS TECHNICAL ELECTIVES CHOSEN FROM

CHEM-4123	Biochemistry II
CHEM-4313	Forensic Toxicology
CHEM-4514	Forensic Analysis
CHEM-4611	Research Methods
CHEM-4612	Research Methods
CHEM-4613	Research Methods
CHEM-4713	Practicum in Forensic Science
MATH-3013	Differential Equations

No more than 3 hours of Practicum in Forensic Science courses may be counted toward the chemistry major.

### 5 HOURS SCIENCE SEMINAR

GNSC-1711	Freshman Science Seminar
GNSC-2711	Sophomore Science Seminar
GNSC-3711	Junior Science Seminar
GNSC-4712	Senior Science Seminar

Students planning to pursue graduate work in chemistry should include MATH-3013-Differential Equations and one computer science course (CMSC-1113-Programming I, CMSC-1123-Programming II, or CMSC-2133-Object Oriented Programming).

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Exp

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

### MUSIC-2013 Music Appreciation

MUSC-3213	Perspectives in World Music
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### SCIENCE, 6 HOURS

used in major

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## B.S. DEGREE IN EXERCISE SCIENCE 78 HOURS



The major consists of three years of university work, plus two semesters of Exercise Science Program courses.

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

1. Demonstrate active Christian 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 evidenced-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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 10 HOURS CHEMISTRY

CHEM-1115	General Chemistry I
CHEM-1215	General Chemistry II

### 21 HOURS BIOLOGY

BIOL-1115	General Biology I: Cellular and Molecular Systems
BIOL-2022	Medical Terminology
BIOL-2033	Nutrition
BIBL-2244	Human Anatomy
BIOL-2913	Biostatistics
BIOL-3224	Human Physiology

### 3 HOURS MATHEMATICS

MATH-1223	Mathematical Functions and Modeling
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### 3 HOURS BEHAVIORAL SCIENCE CHOSEN FROM

PSYC-1113	General Psychology I
SOCI-1113	Sociology

### 2 HOUR SCIENCE SEMINAR

GNSC-1711	Freshman Science Seminar
GNSC-2711	Sophomore Science Seminar

### 8 HOURS PHYSICS WITH LABORATORY

PHYS-1114	College Physics I
PHYS-1214	College Physics II

### COMPLETE 22 HOURS EXERCISE SCIENCE

EXSC-1013	Introduction to Exercise Science
EXSC-3023	Biomechanics
EXSC-3033	Exercise Testing and Prescription
EXSC-3123	Health Issues
EXSC-3231	Exercise Physiology Lab
EXSC-3233	Exercise Physiology
EXSC-4133	Nutrition and Exercise
EXSC-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
EXSC-2123	Public Health Nutrition Missions
EXSC-3013	Lifespan Nutrition
EXSC-3043	Strength and Conditioning

Note: Program Requirements:

Before taking any 3000/4000 level EXSC courses, you must:

1. Maintain a major GPA of 2.5.
2. Complete all prerequisite courses with a grade of "C" or better.
3. Complete GNSC-1711 and GNSC-2711; while enrolled, students must seek approval to add upper division biology courses.
4. Complete ENGL-1213 with a grade of "C" or better.
5. Obtain departmental approval.

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Exp

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS	PSYC-1113 General Psychology I
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### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

WESTERN CIVILIZATION, 3 HOURS	HIST-2923 Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

## 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:

1. Have acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the Oklahoma General Education Test (OGET).
2. Demonstrate an in-depth knowledge of their chosen area of science by achieving a 3.00 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 26 HOURS FOUNDATION SCIENCE COURSES

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

### LICENSURE: SCIENCE – GRADES 6-12

### 25 SEMESTER 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-3523	Developmental Psychology

### 3 HOURS METHODS COURSE

EDUC-4533	Methods of Teaching Science in Secondary Schools
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### FOREIGN LANGUAGE COMPETENCY:

Choose one:

High School Foreign Language – 2 years of same language with a grade of “C” or better

University credit – 3 hours foreign language or American Sign Language with a grade of “C” or better

## UNIVERSITY CORE CURRICULUM: B.S.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

used in major

### BEHAVIORAL SCIENCE, 6 HOURS

PSYC-1113	General Psychology I
Dev Psyc	used in major
PSYC-3523	Developmental Psychology

### LIBERAL ARTS, 6 HOURS

6 hours from any Liberal Arts area, other than current major

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.S.E. DEGREE IN SCIENCE EDUCATION, PHYSICAL SCIENCE 90 HOURS, PROFESSIONAL EDUCATION MINOR INCLUDED



An OC graduate with a Bachelor of Science Education degree in Science Education, Physical Science will have:

1. Active Faith: Develop mature Christian attitudes towards 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 Oklahoma General Education Test (OGET), as well as achieving a 3.00 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.
8. The requirements for a minor in professional education must also be met.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 hours.

### 44 HOURS FOUNDATION SCIENCE COURSES

BIOL-1115	General Biology I: Cellular and Molecular Systems
BIOL-1215	General Biology II: Comparative Physiology and Ecology
CHEM-1115	General Chemistry I
CHEM-1215	General Chemistry II
CHEM-3115	Organic Chemistry I
GNSC-2313	Earth Science
GNSC-2323	Astronomy I
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

### 11 HOURS MATHEMATICS

MATH-1614	Pre-Calculus
MATH-2114	Calculus I with Analytical Geometry
MATH-2913	Statistical Methods

### 3 HOURS UPPER DIVISION CHEMISTRY OR PHYSICS

### LICENSURE: SCIENCE – GRADES 6-12

### 25 SEMESTER 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-3523	Developmental Psychology

### 3 HOURS METHODS COURSE

EDUC-4533	Methods of Teaching Science in Secondary Schools
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### FOREIGN LANGUAGE COMPETENCY

Choose one:

High School Foreign Language – 2 years of same language with a grade of “C” or better

University credit – 3 hours foreign language or American Sign Language with a grade of “C” or better

## UNIVERSITY CORE CURRICULUM: B.S.E. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ENGL-2213	Perspectives in Literature
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### SCIENCE, 6 HOURS

used in major

### BEHAVIORAL SCIENCE, 6 HOURS

PSYC-1113	General Psychology I
Dev Psyc	used in major
PSYC-3523	Developmental Psychology

### LIBERAL ARTS, 6 HOURS

6 hours from any Liberal Arts area, other than current major

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## B.S. DEGREE IN MEDICAL LABORATORY SCIENCE 86 HOURS



The major consists of three years of university work, plus two semesters of Medical Laboratory Science Program 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 procedures 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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

### 26 HOURS BIOLOGY

BIOL-1115	General Biology I: Cellular and Molecular Systems
BIOL-2314	Genetics
BIOL-2623	Anatomy & Physiology II
BIOL-3415	General Microbiology
BIOL-3432	Pathogenic Microbiology Lab
BIOL-3433	Pathogenic Microbiology
BIOL-4201	Immunology Lab
BIOL-4213	Immunology

### 3 HOURS MATHEMATICS

MATH-1223	Mathematical Functions and Modeling
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### 3 HOURS STATISTICS

BIOL-2913	Biostatistics
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### 3 HOURS BEHAVIORAL SCIENCE CHOSEN FROM

PSYC-1113	General Psychology I
SOCI-1113	Sociology

### 1 HOUR SCIENCE SEMINAR

GNSC-3711	Junior Science Seminar
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### COMPLETE 31 HOURS MLS PROGRAM

MLSP-4001	Intro to Medical Laboratory Science
MLSP-4002	Pathogenic Micro 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	MLS Certification Review
MLSP-4102	Laboratory Management
MLSP-4103	Clinical Chemistry
MLSP-4104	Hematology and Lab
MLSP-4112	Hematology, Coag, UA, BF Practicum
MLSP-4122	Chemistry Practicum

### ADMISSION TO THE MLS PROGRAM

Prior to admittance to the MLS program, a student must:

- Complete all courses with a grade of "C" or better
- Competitive applicants will have a minimum cumulative & major GPA of 2.75
- 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 MLS program, [www.oc.edu/mls](http://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.*

## UNIVERSITY CORE CURRICULUM: B.S. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Exp

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

should include literature	
ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater
ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics

### MUSC-2013 Music Appreciation

MUSC-3213	Perspectives in World Music
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### SCIENCE, 6 HOURS

used in major

### CHOOSE 4 OF THE FOLLOWING 5 AREAS:

BEHAVIORAL SCIENCE, 3 HOURS	
PSYC-1113	General Psychology I

### GREAT WORKS, ADDITIONAL, 3 HOURS

Choose 3 hours from list on the left

### WESTERN CIVILIZATION, 3 HOURS

HIST-2923	Perspectives in Western Civilization
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### NON-WESTERN CIVILIZATION, 3 HOURS

GEOG-2113	Elements of Human Geography
GEOG-2213	World Regional Geography
HIST-2613	The Modern Middle East
MISS-3513	World Religions
MISS-3613	Cultural Anthropology
MISS-3673	New Religious Movements
MUSC-3213	Perspectives in World Music

### LIBERAL ARTS, 3 HOURS

outside major, as approved by department

\*For more information on how to apply the study abroad trips to the core curriculum, see page 25.

# SCHOOL OF NURSING

## ALLIED HEALTH SCIENCE 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.

## ADMISSION TO THE NURSING PROGRAM, PRELICENSURE TRACK

In addition to meeting the criteria for admission to OC, you must meet the following requirements:

- A minimum GPA of 3.00
- 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 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 nursing office for further information.

An applicant may be admitted on academic probation if the 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. Factors to be considered include:

- College credits that are five or more years old.
- Returning to college after a gap in years.
- Required GPA on the last 60 hours.
- Required GPA only on the courses being used to meet BSN degree requirements.
- Current healthcare experience.

## 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.

### Progression requirements:

In addition to meeting the general university requirements, nursing students must achieve a minimum grade of "C" in each required support course and an overall GPA of 3.0. Once admitted, the student must maintain a 3.0 average each semester. Students who earn grades of "D" or "F" in two NURS designated 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 license.

The BSN 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.

In addition, 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.

## ADMISSION TO THE RN TO BSN PROGRAM, COMPETENCY TRACK

A registered nurse (RN) with an associate's degree in nursing is eligible for an online, credit-hour competency-based program to earn a BSN through a subscription-period approach. Nine competencies have been identified that represent the curricular strengths of OC's nursing program and fill the gaps in knowledge between the associate level and baccalaureate level of nursing education. Tuition, the subscription fee, is paid for four months at a time, during which the student may complete as many sub-competencies as he or she is able. As all sub-competencies linked to a course are achieved, credit for the course will be awarded. The competencies require the completion of 40 sub-competencies to earn 28 hours of nursing courses and 3 hours of Bible, resulting in a baccalaureate degree in nursing science (BSN).

In addition to meeting the criteria for admission to OC, you must meet the following requirements:

- Accredited official transcripts verifying an A.A. or A.S. degree from an accredited university - maximum of 65 credit hours can be transferred from 2 year college.
- An overall cumulative GPA of 2.5
- Current United States R.N. licensure
- In Good Standing with the Board of Nursing in state of current licensure
- University Core Curriculum audit determined on an individual basis after the Registrar reviews official transcripts.
- An RN to BSN applicant may be admitted on academic probation if the cumulative GPA is less than 2.50 following a review by a faculty committee. The faculty committee will review each application on a case by case basis. Factors to be considered include:
  - College credits that are five or more years old.
  - Returning to college after a gap in years.
  - Required GPA on the last 60 hours.
  - Required GPA only on the courses being used to meet BSN degree requirements.
  - Current healthcare experience.

Students are accepted on a space available, competitive basis. A conference with the Office of the Registrar and the Nursing Department is required. After admittance into the nursing program, a student must maintain a cumulative 2.50 GPA and a 2.50 major GPA. See the R.N. to B.S.N. Handbook for a complete description of requirements, fees, and information on advanced placement.

## B.S.N. DEGREE IN NURSING (PRELICENSURE) 92 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 health care 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 I

### 3 HOURS MATHEMATICS

MATH-1223	Mathematical Functions and Modeling
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### 3 HOURS STATISTICS CHOSEN FROM

BIOL-2913	Biostatistics
MATH-2913	Statistical Methods

### 6 HOURS PSYCHOLOGY

PSYC-1113	General Psychology
PSYC-3523	Developmental Psychology

### 60 HOURS NURSING

NURS-1011	Introduction to Nursing
NURS-2003	Health Assessment
NURS-2013	Fundamentals of Nursing

NURS-2033	Pharmacology
NURS-3013	Pathophysiology
NURS-3014	Mental Health Nursing
NURS-3015	Adult Nursing I
NURS-3024	Maternal-Infant Nursing
NURS-3025	Adult Nursing II
NURS-3034	Health Care Missions and Christian Service
NURS-4005	Community Health Nursing
NURS-4011	Capstone in Nursing
NURS-4015	Child and Family Health Nursing
NURS-4022	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 3.0 GPA. For more information, refer to the Nursing Student Handbook on Blackboard, Nursing Central.

## UNIVERSITY CORE CURRICULUM: B.S.N. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

used in major	
MATH-1223	Mathematical Functions and Modeling

### REQUIRED BIBLE, 8 HOURS

BIBL-1212	Life of Christ: Matthew
BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2033	History of Theater

ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major

### BEHAVIORAL SCIENCE, 3 HOURS

used in major	
PSYC-1113	General Psychology I

### ANATOMY & PHYSIOLOGY, 3 HOURS

used in major	
BIOL-2523	Anatomy and Physiology I

### STATISTICAL, 3 HOURS

used in major

BIOL-2913	Biostatistics
MATH-2913	Statistical Methods

### DEVELOPMENTAL PSYCHOLOGY, 3 HOURS

used in major	
PSYC-3523	Developmental Psychology

\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.

## B.S.N. DEGREE IN NURSING (RN TO BSN COMPETENCY BASED TRACK) 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 health care 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.

Student must complete a minimum of 126 hours including the major, core, and minor if required. Elective hours may be needed to reach 126 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 I*

### 6 HOURS MATHEMATICS

MATH-1223	Mathematical Functions and Modeling*
MATH-2913	Statistical Methods*

### 6 HOURS PSYCHOLOGY

PSYC-1113	General Psychology**
PSYC-3523	Developmental Psychology*

### 61 HOURS NURSING

NURS-1011	Introduction to Nursing**
NURS-2003	Health Assessment**
NURS-2013	Fundamentals of Nursing**
NURS-2033	Pharmacology**
NURS-3013	Pathophysiology
NURS-3014	Mental Health Nursing**
NURS-3015	Adult Nursing I**
NURS-3024	Maternal-Infant Nursing**
NURS-3025	Adult Nursing II**
NURS-3502	Transitions to Professional Nursing
NURS-3512	Transforming Care: Nursing Theory in Practice
NURS-3522	Health Care and Christian Service
NURS-3533	Treatment Modalities
NURS-4015	Child and Family Health Nursing**

NURS-4033	Nursing Research and Evidence Based Practice
NURS-4503	Health Promotion and Wellness
NURS-4513	Go Into All the World: Community Nursing
NURS-4523	Christian Nursing Leadership
NURS-4532	Trends and Issues for Professional Nurses
NURS-4542	R.N. to B.S.N. Nursing Capstone

\*Students receive credit for professional experience for these courses.

\*\*Students receive credit for their AA or AS degree for these courses.

Students are required to take 6-8 hours of Bible courses dependant upon the number of hours in the associate degree.

After admittance into the R.N. to B.S.N. program, a student must maintain a cumulative 2.50 GPA and a 2.50 major GPA. For more information, refer to the R.N. to B.S.N. Student Handbook.

For additional information about the competency based RN to BSN program, contact the School of Nursing at (405) 425-1920.

### WITHDRAW/DROP REFUND POLICY

Tuition and general fee refunds are made to students who officially withdraw from a regular 15-week course 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, 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.

## UNIVERSITY CORE CURRICULUM: B.S.N. - 55 HOURS - COURSES MAY NOT BE REPEATED WITHIN CORE

### COMMUNICATION, 9 HOURS

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

### MATHEMATICS, 3 HOURS

MATH-1223	Mathematical Functions and Modeling
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### REQUIRED BIBLE, 8 HOURS

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BIBL-1312	Life of the Early Church: Acts
BIBL-2202	Story of the Old Testament
BIBL-2302	Story of the New Testament

### BIBLE ELECTIVE, 5 HOURS

5 hours of Bible courses, except Missions Experience

### CAPSTONE, 3 HOURS

BIBL-4523	Capstone: Christ and His World
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### POLITICAL SCIENCE, 3 HOURS

POLS-2113	Introduction to American Government
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### AMERICAN HISTORY, 3 HOURS

HIST-1223	Turning Points in U.S. History
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### GREAT WORKS, 3 HOURS

ARTS-2013	Survey of Visual Culture
ARTS-2423	History of Photography & Motion Pictures
COMM-2023	History of Theater

ENGL-2213	Perspectives in Literature
MATH-2123	The History of Mathematics
MUSC-2013	Music Appreciation
MUSC-3213	Perspectives in World Music

### SCIENCE, 6 HOURS

used in major

### BEHAVIORAL SCIENCE, 3 HOURS

PSYC-1113	General Psychology I
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### ANATOMY & PHYSIOLOGY, 3 HOURS

BIOL-2523	Anatomy and Physiology I
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### STATISTICAL, 3 HOURS

used in major

BIOL-2913	Biostatistics
MATH-2913	Statistical Methods

### DEVELOPMENTAL PSYCHOLOGY, 3 HOURS

PSYC-3523	Developmental Psychology
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\*For more information on how to apply study abroad trips to the core curriculum, see the chart on page 25.



## DIVISION AND SCHOOL OF BUSINESS

### ACCOUNTING MINOR 19 HOURS

#### 10 HOURS BUSINESS FOUNDATION

ACCT-2113	Accounting Principles I
BUSA-1211	Introduction to Business
ECON-2113	Macroeconomic Principles
FINC-3313	Principles of Finance

#### 3 HOURS ACCOUNTING

ACCT-2213	Accounting Principles II
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#### 6 HOURS CHOSEN FROM

ACCT-3113	Intermediate Accounting I
ACCT-3313	Cost Accounting
ACCT-3413	Income Taxation

### FINANCE MINOR 19 HOURS

#### 13 HOURS BUSINESS FOUNDATION

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
BUSA-1211	Introduction to Business
ECON-2113	Macroeconomic Principles
FINC-3313	Principles of Finance

#### 6 HOURS CHOSEN FROM ANY FINANCE COURSE

### 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 HOURS FROM ANY TWO BUSINESS DISCIPLINES

### MANAGEMENT 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 HOURS CHOSEN FROM

BUSA-3713	Business Ethics
INFO-3113	Principles of Electronic Business
MGMT-3213	Operations Management
MGMT-4313	Organizational Behavior
MGMT-4513	Human Resource Management

### MARKETING 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 HOURS MARKETING CHOSEN FROM

MKTG-3413	Consumer Behavior
MKTG-3513	Digital Marketing
MKTG-3713	Sales Management and the Sales Process
MKTG-4313	Promotional Strategies

### SPORTS MANAGEMENT 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 HOURS SPORT MANAGEMENT CHOSEN FROM

SPMG-3313	The Business of Sports
SPMG-3413	Sports Management and Leadership
SPMG-3613	Sports Marketing and Promotion
SPMG-4113	Sports Law
SPMG-4213	Sports Facilities and Events
SPMG-4313	Sports in Society

## DIVISION AND SCHOOL OF ENGINEERING AND 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 MAY BE CHOSEN FROM

Computer Science courses

3 hours must be numbered 3000 or above.

### SOFTWARE ENGINEERING MINOR 18 HOURS

#### 18 HOURS REQUIRED

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 Engineer III-Ethics

### ENGINEERING MINOR 18-20 HOURS

#### 4 HOURS REQUIRED

MATH-2114	Calculus I with Analytical Geometry
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#### 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

ENGR Courses

## MATHEMATICS

### MATHEMATICS MINOR 18 HOURS

Mathematics, including at least 6 hours numbered 3000 or above.

## **DIVISION OF NATURAL & HEALTH SCIENCES**

### **BIOLOGY MINOR 18 HOURS** **18 HOURS OF BIOLOGICAL SCIENCES**

### **CHEMISTRY MINOR 18 HOURS** **18 HOURS OF CHEMISTRY**

Including at least six hours numbered 3000 or above.

### **EXERCISE SCIENCE 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

### **PHYSICAL SCIENCES MINOR 18 HOURS**

#### **18 HOURS OF PHYSICAL SCIENCE**

Including any combination of chemistry, general science, and physics. Including at least six hours numbered 3000 or above.

## **MEDICAL LABORATORY CERTIFICATE 31 HOURS**

MLSP-4001	Intro to Medical Laboratory Science
MLSP-4002	Pathogenic Micro Practicum
MLSP-4005	Clinical Immunology, Immunochemistry and Lab
MLSP-4011	Urinalysis and Body Fluids
MLSP-4012	Bloodbank Practicum
MLSP-4015	Clinical Pathogenic Microbiology
MLSP-4021	Hemostasis
MLSP-4101	MLS Certification Review
MLSP-4102	Laboratory Management
MLSP-4103	Clinical Chemistry
MLSP-4104	Hematology and Lab
MLSP-4112	Hematology, Coagulation Urinalysis
MLSP-4122	Chemistry Practicum



## COURSE DESCRIPTIONS

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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.

### ACCOUNTING (ACCT)

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#### 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 normally offered every 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 normally offered every 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 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 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 every semester.

#### 3323 MANAGERIAL ACCOUNTING

Prerequisite: ACCT-2213.

Study of the use of cost accounting data as a tool for planning, control, and decision making by managers. Topics studied include the nature of costs and their behavior; design of job-order and process cost accounting systems; cost-volume-profit relationships and profit planning; segmented reporting; comparison of direct costing with absorption costing; control of operations through standard costs and flexible budgets; pricing of products and services; relevant costs for decision-making and capital budgeting. This course is offered as needed.

#### 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 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 spring semester.

#### 3713 ACCOUNTING INFORMATION SYSTEMS

Prerequisite: ACCT-3113.

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 spring 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 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.

#### 4423 ETHICS AND AUDITING CONCEPTS

Prerequisite: ACCT-3113.

The course is designed to help students cultivate the ethical commitment needed to ensure that their work meets the highest standard of integrity, independence, and objectivity. Detailed analysis of the need for integrity as the basis for ethics will be covered, as will the various concepts of ethical reasoning. Ethical decision making in business and accounting will be explored, with emphasis given to the areas of independence and objectivity. This course is normally offered in the summer semester.

#### 4433 INCOME TAX PLANNING AND RESEARCH

Prerequisite: ACCT-3513.

A specialized study in the areas of tax planning and research. Emphasis is given to legal ways to minimize tax liability through yearly planning, elections, and deferral of income. Extensive computerized tax research is performed to aid in tax planning. This course is offered as needed.

#### 4513 FINANCIAL ACCOUNTING STATEMENT ANALYSIS

Prerequisite: ACCT-3113.

An in-depth study of contemporary accounting theory with primary emphasis on the pronouncements of the Financial Accounting Standards Board. The main objective is to gain deeper insights into the theory and critical analysis underlying Generally Accepted Accounting Principles and to apply them to financial statement preparation. Study centers on selected parts of the following FASB pronouncements: 1. statements of Financial Accounting Standards, 2. interpretations of ARBs, APB Opinions and FASB Statements of Standards, 3. technical bulletins, and 4. statements of Financial Accounting Concepts. This course is normally offered in the spring semester.

#### 4900 INDEPENDENT STUDY IN ACCOUNTING

Assigned readings, reports and research projects based on the needs of the student. A maximum of 3 hours may be counted toward major. 1-3 semester hours; 50 hours work required for each hour of credit earned, with a maximum of 3 credit hours. This course is offered as needed.

#### 4990 INTERNSHIP IN ACCOUNTING

Prerequisites: Admission to College of Business Administration 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 & DESIGN (ARTS)

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#### 1103 DIGITAL IMAGING

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.

#### **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 realtime 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**

Pre-requisite: 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 the 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 TYPOGRAPHY 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.

#### **2323 DIGITAL IMAGING II**

Prerequisites: ARTS-1103 and ARTS-1413.  
Use of digital design tools for the production of single-page and multi-page printed documents: print advertising, marketing, and stylized content delivery. 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 film makers of the modern age. This course is offered in the fall semester.

#### **2443 CONSTRUCTION MATERIALS AND DETAILS**

Prerequisites: ARTS 1623 and 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**

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.

#### **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 design majors, this course is normally offered in the fall semester.

#### **2753 TEXTURING, RENDERING, AND LIGHTING**

Pre-requisite: 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.

#### **3033 CHRISTIAN AESTHETICS IN THE VISUAL ARTS**

Prerequisite: Junior or Senior Standing.  
A seminar course addressing a Christian response to contemporary cultural issues in the visual arts. This course is normally offered as needed.

#### **3113 PRINTMAKING: INTAGLIO AND RELIEF**

Prerequisites: ARTS-1213 and ARTS-1413.  
Designed to introduce you to the tools, history, and basic techniques of printmaking through the use of the etching press. Etching, drypoint, collograph, relief, and monotype techniques will be discussed. Students are encouraged to explore the problems and concerns of their own images technically through multiples and one-of-a-kind prints. A series of critiques, group discussions, research and information gathering assignments, lectures and demonstrations complement studio work. This course is normally offered in

the fall semester.

### **3123 PRINTMAKING: SERIGRAPHY**

Prerequisite: ARTS-1213, ARTS-1413.

Designed to introduce you to a survey of screen-printing techniques including hand-cut, painted and photographic stencils and multi-color printing. This course is an introduction examination of water-based serigraphic techniques, concentrating in process and aesthetic development. Monotype and monoprint techniques will also be discussed. A series of critiques, group discussions, research and information gathering assignments, lectures and demonstrations complement studio work. This course is normally offered in the spring semester.

### **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 + DIGITAL DELIVERY DESIGN**

Prerequisite: ARTS-2233.

A creative problem solving course that applies strategy, concept, copy content, and visual communication for an executed message across platforms for print, web, social media, and branded content.

### **3263 ADVANCED GRAPHIC DESIGN**

Prerequisite: ARTS-2233.

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.

### **3513 GRAPHIC ARTS PRODUCTION**

Prerequisite: ARTS-2233.

An introduction to a basic understanding of preparing art for reproduction through textbook material, lectures, and an internship. This course is normally offered in the summer semester.

### **3523 CONCEPTUAL ILLUSTRATION**

Prerequisites: ARTS-1103, ARTS-1113, AND ARTS-1413.

A creative problem-solving course that emphasizes concepts, visual process, mode of communication, and audience. 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 the 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.

### 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.

### 4213 OPEN STUDIO

Prerequisite: ARTS-3213.

Advanced painting course emphasizing the production of finished portfolio with preparation of 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 normally offered in the fall semester.

### 4253 INTEGRATED MARKETING DESIGN

Prerequisite: ARTS-2233.

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.

### 4333 PHOTOGRAPHY II

Prerequisite: ARTS-3363 OR COMM-2413.

Students will work in a digital format with an emphasis on producing a professional portfolio of photographic images encompassing fine art and commercial applications. As a final studio course, students will be required to submit work to national photographic competitions and public exhibitions. This course is offered as needed.

### 4523 VISUAL STORYTELLING

Pre requisite: ARTS-1103 ARTS-1113 ARTS-1413.

A creative problem solving course that combines words and sequential art to tell a dynamic narrative.

### 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 + 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.

### 4810 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.

### 4820 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.

### 4830 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.

### 4900 INDEPENDENT STUDY

Prerequisites: Junior or Senior standing and permission of instructor.

Provides opportunity for the well-qualified student to do supervised individual work in an area of special interest. Either art history or studio areas may be chosen. (1-3 hours) This course is offered as needed.

## BIBLE (BIBL)

### 1103 INTRODUCTION TO THE BIBLE I

Prerequisites: Permission of instructor.

Introduces students who have little or no familiarity with the Bible or the Christian faith to the basic message, concepts and characters. The course, along with Introduction to the Bible II, prepares students to enter the regular core Bible curriculum the following year. This course is normally offered in the fall semester.

### 1202 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. Same as CMIN-1202.

### 1203 INTRODUCTION TO THE BIBLE II

Prerequisite: Permission of instructor.

This course is a continuation of BIBL-1103 and is also intended for students with little or no familiarity with the Bible. Students will continue learning the basic message, concepts, and characters of the Bible. This course is normally offered in the spring semester.

### 1212 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.

### 1312 LIFE OF THE EARLY CHURCH: ACTS

A study of the establishment and growth of the early church. Emphasis is placed on the major Christian doctrines taught in the first century and the application of those doctrines to the life of the early church. This course is normally in the offered spring semester.

### 2013 INTRODUCTION TO SOCIAL JUSTICE

The people of God are called to "act justly and to love mercy" (Micah 6:8), but our pluralistic society holds competing visions of what a "just" world looks like. The purpose of this course is to enable students to understand that meaning and practical implications of various historical and contemporary conceptions of justice. Students will be challenged to identify resources from scripture and the Christian tradition that they can use to interpret and address social issues within the church and society such as wealth and equality, civil rights, environmental rights, the criminal justice system and the labor movement. Sources for the course include classical texts on justice, scripture, classical Christian texts, and modern Christian social theorists. Major themes to be explored within the course include the role of religion in the public's sphere, understanding the person in relation to society and the state, the search for the common good, the use of force within and between communities, the dignity of the human person, and the mediation of conflicting justice traditions within a pluralistic society. This class is offered in the fall semester of an odd numbered year.

### 2122 TEACHING THE BIBLE TO PRESCHOOLERS

A study of the age characteristics, motivational principles, learning methods, and curriculum for teaching the Bible to children from birth through age five. This course is normally offered in the fall semester. Same as CMIN-2122.

### 2132 FAITH AND THE PROBLEM WITH 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 of God to the 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.

### 2142 WORSHIP AND THE CHRISTIAN LIFE

This course draws on sources, both ancient and new, to explore the foundation and function of Christian worship. Students will engage the contours of worship and its relationship to ministry, theology, morality, and our shared humanity. Students will also be given an opportunity to plan and lead a theologically informed worship service. This course

is offered in the spring semester.

## **2202 STORY OF THE OLD TESTAMENT**

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.

## **2302 STORY OF THE NEW TESTAMENT**

Follows 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.

## **2312 EVIDENCES OF CHRISTIANITY (APOLOGETICS)**

A study of the evidences 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.

## **2512 PERSONAL EVANGELISM**

Includes the methods and approaches for doing personal Bible instruction along with intensive study on the biblical issues that typically arise in doing such studies. Non-textual. This course is normally offered every semester.

## **2713 INTRODUCTION TO MINISTRY**

Introduces the ministerial student to Christian ministry in general, with special emphasis on the ministries of pulpit, religious education, and youth. Study focuses on the biblical basis for ministry, management skills, people skills, and personal growth. Reading and writing assignments allow the student to emphasize the ministry of choice. Non-textual. This course is normally offered in the fall semester.

## **3002 GENESIS AND EXODUS**

A study of God's work in creation and in establishing his eternal plan of salvation. The following subjects are covered: the biblical account of creation with a study of alternate beliefs such as the theory of evolution, science and faith, the nature of man, temptation and fall, the flood, the call of Abraham and the beginning of the Israelites, the doctrine of divine election, the bondage and the exodus, the Ten Commandments and basic morality, type and ante type of the tabernacle. This course is normally offered in the spring semester of odd numbered years.

## **3003 VOCATIONAL MINISTRY**

A course that examines a range of issues related to Christian ministry when it is not fully remunerated by a church or parachurch agency. Emphasis is placed on applying one's gifts and talents in diverse fields of endeavor that are commonly viewed as "secular" but with the explicit goal of building up the kingdom of God worldwide. Non-textual. Same as MISS-3003. Normally offered spring semester of even numbered years.

## **3013 HERMENEUTICS**

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 spring semester.

## **3033 MISSION PREPARATION**

A course taught by one who has served as a missionary. The following subjects are treated: the New Testament concept of missions and missions today; a description of the work of a missionary; doctrinal preparation for the mission field; emotional preparation; spiritual preparation; preparing the supporting home church missionary cycle, entering the host country; communicating with the home church; effective missionary methods for various fields; maintaining physical, mental, emotional, social, and spiritual health in the mission field. Non-textual. Same as MISS-3013. This course is normally offered in the spring semester of odd numbered years.

## **3042 PARABLES OF JESUS**

A detailed study of the parables of Jesus emphasizing their message against their literary and historical backgrounds, especially their social and cultural context. This course is normally offered in the spring semester.

## **3043 SCRIPTURE AND MISSION OF GOD**

The primary assumption of this course is that Christian Scripture witnesses to God who created the world, deeply cares for the world, is active in the world, and has a purpose for creation. In other words, the Bible witnesses to the God of missions. This course will explore a missional interpretation of scripture, or how to read scripture in light of the mission of God. It will also examine how the Biblical text bears witness to God's mission and how it calls and equips Christians and Christian communities to participate in God's mission. Same as MISS-3033. Normally offered fall semester of odd numbered years.

## **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 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 every semester.

## **3102 I CORINTHIANS**

A thorough analysis of Paul's epistle to the church at Corinth. Special emphasis is given to the problems faced by Christianity in a pagan center and to the application of Christian principles in solving various disorders in conduct and doctrine in a local church. This course is normally offered in the spring semester of odd numbered years.

## **3113 THE NEW TESTAMENT CHURCH**

A study of the sociological characteristics of the first century church with special attention to various New Testament letters and to the Gospels' descriptions of the church's organization, mission work, worship, and destiny. Non-textual. This course is normally offered in the spring semester of odd numbered years.

## **3121 INTENTIONAL CHRISTIAN COMMUNITY: THEORY AND PRACTICE**

The purpose of the course is to expose students to this alternative vision in a variety of contexts. Students will study historical examples of Christian community and consider how the common life has been expressed in different ways overtime; they will also compare various contemporary North American models of Christian community. Additionally, attention will be given to the Biblical theology behind community and the practical virtues necessary for sharing life with others. This course is normally offered in the spring semester of even numbered years.

## **3143 THE SCIENTIFIC CHRISTIAN**

Prerequisites: Junior or Senior standing, science or engineering major, or permission of instructor.

Especially designed to help science majors who are Christians explore the relationship between faith and science. Many Christian college graduates who are trained in the sciences and are also active church members report that people seem to expect them to be able to answer all the hard questions about science and Christianity. This course is not designed to answer all the hard questions, but it is designed to assist Christians in thinking about their own responses to them. This course is normally offered in the fall semester of even numbered years.

## **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 MISS-3213. Non-textual. This course is normally offered in the fall semester of even numbered years.

## **3163 URBAN MINISTRY**

An examination of diverse aspects of ministry within urban contexts both in the United States and abroad. Topical areas covered include cities in the Bible, principles of urban evangelism and missions, urban church growth, and ministry in contexts of ethnic, racial, and socioeconomic diversity. Non-textual. This course is normally offered in the spring semester of even numbered years.

## **3173 CHURCH HISTORY TO 1517**

A comprehensive historical survey of the Christian religion 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. Non-textual. This course is normally offered in the fall semester of even numbered years.

## **3183 CHURCH HISTORY 1517 TO PRESENT**

A continuation of BIBL-3173 dealing with Christian history from the sixteenth-century Reformation to the present, with emphasis on the nineteenth-century Restoration Movement in America. Non-textual. This course is normally offered in the spring semester of odd numbered years.

## **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.

## **3222 RELIGIOUS EDUCATION OF CHILDREN**

A study of the age characteristics, motivational principles, learning methods, and curriculum for teaching the Bible to children from birth to age 12. Same as YTMN-3222. This course is normally offered every semester.

## **3223 GALATIANS, I AND II THESSALONIANS**

A thorough analysis of three important Pauline epistles. Special attention is given to the relation of Christianity to the Law of Moses and to the second coming of Christ. This course is normally offered in the spring semester.

### **3233 I AND II TIMOTHY, TITUS**

A thorough study of the epistles of Paul to Timothy and Titus with special emphasis on the historical occasion that prompted these letters. Among the issues covered are the qualifications of church leaders, social-ethical obligations of Christians, and roles in public assemblies. This course is normally offered in the spring semester.

### **3243 OLD TESTAMENT PROPHETS: 7TH TO 5TH CENTURY**

An introduction to Israel's prophets who lived during the seventh, sixth and fifth centuries. Emphasis will be given to the historical setting and message of each prophet, with special attention to the relevance of these messages for today. This course is normally offered in the fall semester of odd numbered years.

### **3253 TEACHING THE BIBLE**

A course designed to help students prepare Bible lessons that are a good development of a text or a Bible topic and to present it in a way that will illuminate the teaching of scripture. Courses in religious education of children, adolescents, and adults will build on the foundation laid in this course. This course is normally offered in the fall semester of even numbered years.

### **3263 HEALING AND FORGIVING 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.

### **3313 JAMES TO JUDE**

Designed to acquaint the student with the specific content and principles for Christian living found in the General Epistles of the New Testament. This course is normally offered in the fall semester.

### **3333 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. Non-textual. Same as MISS-3313. This course is normally offered in the spring semester of odd-numbered years.

### **3343 LOVE AND THE HUMAN CONDITION**

This course surveys a variety of approaches to love from ancient Greek philosophy to medieval mysticism to modern evolutionary biology. As "love" is a multifaceted concept, this course considers the way people from various cultures and historical periods have understood love in order to answer the overarching question: "How does one enact the highest human task of 'loving one another'?" This course is offered in the spring semester.

### **3403 LEADERSHIP AND ADMINISTRATION OF CHILDREN'S MINISTRY**

The purpose of this course is to explore and examine ways in which the disability community provides the church with a dynamic model of spiritual transformation. The serious student will take away from this course a deeper understanding of the disability community and the church's obligation to reach out to those who are most vulnerable. This course will benefit those who are majoring in biblical studies, education, counseling, human services, business, any health-related field, or intercultural studies. Same as CMIN-3403. This course is normally offered in the fall semester of even numbered years.

### **3413 CHRISTIAN FAMILY**

Prerequisite: Junior or Senior standing.

A study of marriage, with emphasis on the characteristics of a Christian family. Special attention is given to communication, financial management, conflict resolution, sexuality, and biblical teaching on marriage. Non-textual. This course is normally offered every semester.

### **3423 ARCHAEOLOGY AND THE NEW TESTAMENT**

A study of the archaeological findings and site locations that are related to New Testament history and interpretation. Textual or Non-textual. This course is normally offered in the spring semester.

### **3433 ARCHAEOLOGY AND THE OLD TESTAMENT**

A study of site locations and archaeological locations in Bible lands for greater understanding of the Old Testament. Textual or Non-textual. This course is normally offered in the fall semester.

### **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 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.

### **3453 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. This course is normally offered every semester.

### **3512 PRISON EPISTLES**

A study of the historical background and the contents of Ephesians, Philippians, 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.

### **3533 CHRISTIANITY AND MENTAL HEALTH**

This course provides an overview for mental health issues encountered in a ministry setting. Topics included cover 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.

### **3612 SPIRITUAL DEVELOPMENT OF CHILDREN**

A study of the spiritual development of children as it applies to both churches and parents. Study will focus on how Scripture, tradition, reason, and experience are connected in shaping a child's spiritual development. Through reading, interviewing, and assignments students will learn first-hand how to better equip churches and parents to fulfill this role. This course is normally offered in the fall semester of even numbered years.

### **3613 JOB TO SONG OF SOLOMON**

An introduction to the wisdom and devotional literature of ancient Israel. This course considers the practical lessons of Proverbs, the problem of suffering in the book of Job, the meaning of life in Ecclesiastes, and the language of praise and faith in the book of Psalms. Special attention is given to the relevance of this literature for contemporary life and faith. This course is normally offered in the spring semester.

### **3673 NEW RELIGIOUS MOVEMENTS**

A study of explicitly religious teachings and practices in a wide variety of new religious movements, as well as quasi-religious teachings and practices in such areas as alternative medicine, the environment, self-help and psychotherapy, and the New Age movement. Fulfills the core curriculum non-Western civilization requirement. Same as MISS-3673. Non-textual. This course offered as needed.

### **3712 HEBREWS**

A detailed study of this important New Testament epistle with emphasis on the supremacy of Christ, the old covenant and the new covenant, the danger of apostasy, and the mighty deeds of the faithful. This course normally offered in the spring semester of odd numbered years.

### **3713 CONTEMPORARY ETHICS**

This course includes 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. Non-textual. Same as SOCI-3713. This course is normally offered in the fall semester of odd numbered years.

### **3823 COUNSELING FOR MINISTERS**

Prerequisite: PSYC-1113

A study of both theoretical formulation and biblical principles to form the basis for supervised laboratory practice of counseling skills for ministers. Non-textual. This course is normally offered in the spring semester.

### **3913 HOMILETICS I: PREPARATION & DELIVERY OF RELIGIOUS SPEECHES**

Prerequisite: COMM-1213 or permission of instructor.

A study of the theory, practice, and evaluation of the preparation and delivery of sermons and religious speeches. Same as COMM-3913. Non-textual. This course is normally offered in the fall semester.

### **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 MISS-4113. This course is normally offered in the spring semester of odd 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 even numbered years.

### **4213 TEACHING THE BIBLE TO ADOLESCENTS**

A study of the age characteristics, motivational principles, learning methods, and curriculum for teaching the Bible to adolescents 13-18 years old. This course is normally offered in the fall semester.

### **4223 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.

#### **4232 LIFE AND WORK OF THE MINISTER**

Prerequisite: Junior or Senior Standing.

A course to help ministers prepare to deal with the following topics: personal spiritual development, caring for one's family, care of members with special needs, making church worship more effective, training and equipping members in the church, making effective use of computers in the work of the church, and serving in smaller communities. Non-textual. This course is normally offered in the fall of even numbered years.

#### **4243 OLD TESTAMENT PROPHETS: 8TH CENTURY**

A study of Judean and Israelite prophets who lived during the eighth century. Special attention will be given to the historical background and message of each prophet, as well as his contemporary relevance. This course is normally offered in the fall semester of even numbered years.

#### **4303 MISSIONS IN THE CONTEMPORARY WORLD**

A study of the impact of various issues upon mission work as it is actually being carried out today around the world, taught by a visiting missionary. Content varies according to the particular field experience of the instructor. Non-textual. Same as MISS-4303. This course is normally offered as needed.

#### **4311 ISAIAH AND THE CIVIL RIGHTS TOUR**

Isaiah and the Civil Rights includes the option of a week-long Civil Rights tour where students study Civil Rights locations along with sermons of Dr. Martin Luther King whose rhetoric was deeply rooted in Isaiah's call to justice. Students are asked to reflect upon how the rhetoric of Isaiah is appropriated to address contemporary justice issues. Sites visited include Memphis (Civil Rights Museum), Birmingham (16 Street Baptist Church), Montgomery (Rosa Parks Museum and Dexter Avenue Baptist Church), and Selma (the historic First Baptist Church associated with the Civil Rights Movement). This course is normally offered in the spring semester in combination with the Civil Rights Tour.

#### **4312 ISAIAH**

A detailed study of the book of Isaiah with emphasis on his times, his message, and the topic of Messianic prophecy. This course is offered in the spring semester of even numbered years.

#### **4313 JOSHUA THROUGH NEHEMIAH**

An intensive study of the history of Israel from the formation of the nation through the return from Babylonian exile. Based on the historical books of the Old Testament. Textual. This course is normally offered in the spring semester.

#### **4412 GREAT CHRISTIAN DOCTRINE**

A systematic study of the biblical teachings regarding revelation, God, Christ, and the Holy Spirit. This course is normally offered in the fall semester of even numbered years.

#### **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.

#### **4423 GOSPEL OF JOHN**

A study of the life and teachings of Jesus from the viewpoint of the Fourth Gospel. Comparison is made with the Synoptics in appropriate places. Particular emphasis is given to the historical setting at the time the Gospel was written and John's Christology. Textual. This course is normally offered in the fall 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.

#### **4523 SENIOR BIBLE CAPSTONE: CHRIST AND HIS WORLD**

Christ and His World: Senior Bible Capstone will serve as the capstone for the core Bible classes at Oklahoma Christian by exploring the Christian worldview in relation to other views that students will encounter. It will be a small, discussion-oriented course aimed at helping students understand Christian ways of thinking and acting. While the intent is not for this to be an exhaustive survey, students will explore philosophical, religious, and ethical ideas from Christian and non-Christian sources as an aid to understanding how Christians can think and act consistently in the world, especially in relation to those who are from different belief-systems or backgrounds. This course is normally offered in the every semester.

#### **4613 ROMANS**

A thorough exegesis of the epistle to the church in Rome with attention to the great doctrines of Christianity emphasized by Paul in this book. Textual. This course is normally offered in the fall semester of odd numbered years.

#### **4622 PSALMS**

An intensive study of the Book of Psalms for non-Bible majors. Primary objectives include providing the student with a working knowledge of the contents of the book, a fundamental grasp of critical issues in the interpretation of Psalms, and a good understanding of the significance of the Psalms for Christian life and the church. Textual. This course is normally offered in the spring semester of even numbered years.

#### **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.

#### **4732 NEW TESTAMENT BACKGROUNDS**

An examination of the history, literature, and religious thought of what is known as Second Temple Judaism (586BC-70AD). Special attention will be given to the major themes of the classical Hebrew period, the crisis of Babylonian conquests, Hellenism, and Jewish attempts to reconstruct a religious identity in this period. This course is normally offered in the fall semester of even numbered years.

#### **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: BIBL-3913 or COMM-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.

#### **4773 HOMILETICS III: PREACHING FROM A BIBLE BOOK**

Prerequisite: BIBL-3913 or COMM-3913.

This course builds on the basic homiletics course and emphasizes preaching from a specific book of the Bible. Different books from the Old Testament or the New Testament may be chosen by the teacher. The course deals with analyzing the needs of a congregation, developing specific sermons of different types from the Bible book, and offering students an opportunity to present sermons for critique by other students and the teacher. This course is normally offered as needed.

#### **4803 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.

#### **4822 PRACTICAL EXPERIENCE IN RELIGIOUS EDUCATION II**

Practical experience in a church situation under the guidance of an experienced teacher or supervisor. By approval only. This course is normally offered every semester.

#### **4830 NON-TEXTUAL SPECIAL STUDY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

#### **4840 OLD TESTAMENT SPECIAL STUDY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

#### **4850 NEW TESTAMENT SPECIAL STUDY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

#### **4860 CROSS-CULTURAL EVANGELISM**

Normally taken by students in an exchange program with Ibaraki Christian College in Japan. (2-4 hours) This course is offered as needed.

#### **4863 MINISTRY PRACTICUM**

Practical experience in preaching under the guidance of an experienced supervisor. By approval only. This course is normally offered every semester.

#### **4900 INDEPENDENT STUDY**

Independent study in Old Testament, New Testament or non-textual. This course is offered as needed.

## **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 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 EXSC-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 and either concurrent enrollment in CHEM-1104 or completion of CHEM-1104 with a grade of "C" or better.

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 - 3 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 breakdown 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 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. 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

Prerequisites: BIOL-1013 with a "B" or better.

This course is part 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. This course is normally offered in the spring semester.

### 2623 ANATOMY AND PHYSIOLOGY II

Prerequisites: BIOL-1013 with a grade of "B" or better.

This course is part 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. 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.

### 3223 GENERAL EMBRYOLOGY

Prerequisites: BIOL-2244 or BIOL-3115 with a grade of "C" 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 odd 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, rickettsiae, 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.

#### **3432 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 serologic techniques. This course is normally offered in the spring semester.

#### **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.

#### **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. This course is not suitable for students who object to the use of animals in teaching and/or research. This course is normally offered in the spring semester of odd numbered years.

#### **4201 IMMUNOLOGY LAB**

Concurrent enrollment: 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. This course is normally offered in the fall 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 are emphasized. Lecture – 3 hours. This course is normally offered in the fall 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 spring semester of even numbered years.

#### **4301 MOLECULAR BIOLOGY LAB**

Prerequisite: BIOL-2314 and BIOL-4014.

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 FORENSIC TOXICOLOGY**

Prerequisite: CHEM-3115 with a grade of "C" or better.

An integrated study of toxicology as it relates to forensic science. This course will provide an introduction to postmortem forensic toxicology, forensic drug testing and pharmacokinetics and pharmacodynamics. Analytical principles and methodologies, both theory and applications, will be covered for the most commonly encountered analytes, such as ethyl alcohol, benzodiazepines, opioids, cocaine, cannabis, amphetamines, hallucinogens, therapeutic drugs, carbon monoxide, and cyanide. This course is primarily about exploring the analysis of illicit drugs and chemicals in biological specimens taken from individuals who have died from their toxic effects. Lecture—3 hours. Same as CHEM-4313. 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**

Prerequisites: 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 missions clinic as part of the student's enrollment in an international studies program. This course is offered as needed.

#### **4900 INDEPENDENT STUDY IN BIOLOGY**

Junior standing required.

Assigned research, readings and reports based on the needs of the individual student. May be taken only by junior or senior science majors with approval of the departmental chair. (1-3 hours) This course is offered as needed.

## **BUSINESS ADMINISTRATION (BUSA)**

#### **1111 BUSINESS ORIENTATION**

An orientation to the theory and practice of business. Students will also engage in a real world team project where in 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 normally offered every semester.

#### **2003 CAREER AND PROFESSIONAL READINESS**

This course delves deeply into the theme of professional development as you prepare to enter into internships and other experiential opportunities and to meet the demands of acquiring and building a career. The course is comprised of three modules, each with a major assignment and developmental exercises: leadership (ethics, communication, leadership styles), self management (emotional intelligence, personal branding, etiquette), and professional development (portfolio/resume building, networking, interviewing). This course is normally offered every spring 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 semester.

#### **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 normally offered every semester.

#### **4900 INDEPENDENT STUDY IN BUSINESS ADMINISTRATION**

Assigned readings, reports, and research projects based on the needs of the student. (1-3 hours). A maximum of 3 hours may be counted toward major. This course is offered as needed.



## 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 in 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 22 or lower – 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 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 and summer.

### 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.

### 2113 INTRODUCTION TO FORENSIC SCIENCE

A survey course covering the various ways in which science is applied to criminal and civil law. The major fields of forensic science and their basic tenets will be discussed and supported. Topics of forensic science to be discussed include crime scene processing and evidence collection, soil, hair, glass, and trace evidence, fingerprints, documents, firearms and gunshot residue, arson investigation, drug abuse, toxicology, serology and DNA, and explosives. In addition to forensic science, this course can be taken for science core credit. Lecture - 3 hours. This course is normally offered in the fall of odd numbered years.

### 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.

### 3214 ANALYTICAL CHEMISTRY II

Prerequisite: CHEM-3114 with a grade of "C" or better.

A course for increasing the knowledge of gathering qualitative and quantitative information about the composition and structure of matter. This course is to help the student gain an understanding of the tools available for solving analytical problems. The pitfalls that accompany physical measurements and the limitations in sensitivity, precision, and accuracy of instrumental measurement will be discussed. The strengths and limitations of instruments that are currently available in modern industrial and research laboratories, such as the gas chromatograph/mass spectrometer, high performance liquid chromatograph, atomic absorption spectroscope, ultraviolet/visible light spectrophotometer, and Fourier transform infrared spectroscope will be covered in detail. Lecture—3 hours; Laboratory—3 hours. This course is normally offered in the spring semester of odd numbered years.

### 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 PHYSICAL CHEMISTRY I

Prerequisites: CHEM-3124 and MATH-2114 with a grade of "C" or better.

Concurrent enrollment: CHEM-4121.

A study of the mathematical approaches to the physical properties of chemical systems, including gas laws, thermodynamics equilibria, liquids and solutions, solids, and reaction rates. Lecture – 3 hours. This course is normally offered in the fall semester of odd numbered years.

### 4121 PHYSICAL CHEMISTRY EXPERIMENTS I

Concurrent enrollment: CHEM-4113.

Lab exercises to accompany CHEM-4113, which is a corequisite. Laboratory – 3 hours. This course is normally offered in the fall semester of odd numbered years.

### 4123 BIOCHEMISTRY II

Prerequisite: CHEM-4014 with a grade of "C" or better.

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 of odd numbered years.

### 4213 PHYSICAL CHEMISTRY II

Prerequisite: CHEM-4113 with a grade of "C" or better.

Concurrent enrollment: CHEM-4213.

A study of quantum mechanical investigations into chemical systems, concentrating on the fundamental nature of atoms, molecules and bonding. These principles are used to discuss the interaction of atoms and molecules with radiation and the statistical behaviors of ensembles. Lecture – 3 hours. This course is normally offered in the spring semester of even numbered years.

### 4221 PHYSICAL CHEMISTRY EXPERIMENTS II

Prerequisite: CHEM-4121 with a grade of "C" or better.

Corequisite: CHEM-4213.

A continuation of CHEM-4121. Laboratory – 3 hours. This course is normally offered in the spring semester of even numbered years.

### 4313 FORENSIC TOXICOLOGY

Prerequisite: CHEM-3115 with a grade of "C" or better.

An integrated study of toxicology as it relates to forensic science. This course will provide an introduction to postmortem forensic toxicology, forensic drug testing and pharmacokinetics and pharmacodynamics. Analytical principles and methodologies, both theory and applications, will be covered for the most commonly encountered analytes, such as ethyl alcohol, benzodiazepines, opioids, cocaine, cannabis, amphetamines, hallucinogens, therapeutic drugs, carbon monoxide, and cyanide. This course is primarily about exploring the analysis of illicit drugs and chemicals in biological specimens taken from individuals who have died from their toxic effects. Lecture—3 hours. Same as BIOL-4313. This course is normally offered in the spring semester of odd numbered years.

### 4414 INORGANIC CHEMISTRY

Prerequisites: CHEM-3124 with a grade of "C" or better.

A study of inorganic chemistry that includes advanced atomic theory, symmetry and group theory, molecular orbital theory, advanced acid-base theory, coordination chemistry, spectroscopy, and introduction to solid state, main group, organometallic, bioinorganic, and environmental chemistries. Lecture – 3 hours, Laboratory – 3 hours. This course is normally offered in the fall semester of even numbered years.

### 4514 FORENSIC ANALYSIS

Prerequisite: CHEM-2113 and CHEM-3115 with a grade of "C" or better. An integrated laboratory/lecture study of various up-to-date technologies utilized by forensic scientists in their application of science to criminal investigations. The laboratory will include many

prominent analyses, including blood alcohol, drugs of abuse, ink, fingerprint, glass fragmentation, and explosives. Lecture - 3 hours; laboratory - 3 hours. This course is normally offered in the spring semester of even 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.

#### **4713 PRACTICUM IN FORENSIC SCIENCE**

Prerequisite: CHEM-2113 and CHEM-3115 with grade of "C" or better and recommendation of the chemistry faculty.

A hands-on experience in forensic science research in the chemistry laboratories at OC, in the forensic laboratory of the Oklahoma State Bureau of Investigation (OSBI) Forensic Science Center (FSC), or at another suitable forensic science lab. The student will rotate through all units of the FSC or be assigned a specific unit working on a designated research project or perform a research project at OC. Laboratory—3-8 hours. This course is normally offered in the fall and spring semesters and in the summer.

#### **4900 INDEPENDENT STUDY IN CHEMISTRY**

Assigned readings, reports, or lab investigations based on the needs and interests of the individual student. Must be administered by a chemistry professor and may be taken only with the approval of both the departmental chair and the instructor directing the study. (1-3 hours) This course is offered as needed.

#### **4901 INDEPENDENT STUDY IN CHEMICAL HEALTH AND SAFETY**

Prerequisites: CHEM-3115 with a grade of "C" or better and permission of instructor. Reviewing technical sources of information, understanding the human health and safety of a chemical compound commonly found in the workplace or in the environment. Organizing the information and co-writing with the instructor an informational article for publication in an American Chemical Society peer-reviewed journal. 1 hour. This course is normally offered every semester.

### **CHILD/HUMAN DEVELOPMENT (CHDV)**

#### **3013 NATURE AND CHARACTERISTICS OF EARLY CHILDHOOD**

Prerequisite: FMST-1113. Corequisite or prerequisite: PSYC-3523.

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-3523.

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-3523.

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 in the spring semester.

### **CHILDREN'S MINISTRY (CMIN)**

#### **1202 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. Same as BIBL-1202.

#### **2122 TEACHING THE BIBLE TO PRESCHOOLERS**

A study of the age characteristics, motivational principles, learning methods, and curriculum for teaching the Bible to children from birth through age five. This course is normally offered in the fall semester. Same as BIBL-2122.

#### **2222 TEACHING THE BIBLE TO ELEMENTARY CHILDREN**

A study of the age characteristics, motivational principles, learning methods, and curriculum for teaching the Bible to children in Grades 1-6. This course is normally offered in the spring semester.

#### **3013 MINISTRY IN THE MARGINS: A GLOBAL PERSPECTIVE ON DISABILITIES**

The purpose of this course is to explore and examine ways in which the disability community provides the church with a dynamic model of spiritual transformation. The serious student will take away from this course a deeper understanding of the disability community and the church's obligation to reach out to those who are most vulnerable. This course will benefit those who are majoring in biblical studies, education, counseling, human services, business, any health-related field, or intercultural studies. This course is normally offered in the spring semester of even numbered years.

#### **3213 CURRICULUM DEVELOPMENT FOR CHILDREN'S MINISTRY**

This course is designed to equip university students with the skills to develop curriculum for children's ministry and be able to utilize the resources available. This course is normally offered in the spring semester of even numbered years.

#### **3403 LEADERSHIP AND ADMINISTRATION OF CHILDREN'S MINISTRY**

A study of the various and unique aspects of leadership and administration necessary to be an effective Children's Minister. This course is normally offered in the fall semester of even numbered years. Same as BIBL-3403.

#### **3612 SPIRITUAL DEVELOPMENT OF CHILDREN**

A study of the spiritual formation of children as it applies to both churches and parents. Study will focus on how Scripture, tradition, reason, and experience are connected in shaping a child's spiritual formation. Through reading, conducting surveys, and assignments, students will learn first-hand how to better equip churches, parents, and teachers to fulfill this role. This course is normally offered in the fall semester of even numbered years.

#### **4313 VOLUNTEERS, PARENTS, AND STAFF IN YOUTH AND FAMILY MINISTRY**

This course will equip students to carry out Ephesians 4:11-13. Effective youth and family ministry requires help. Students will learn how to recruit and train volunteers. Equipping parents to do their God-given job (Deuteronomy 6:4-9) will be given priority in the course. Relationships with paid and volunteer staff will be discussed. Students will be required to volunteer at a local church during the semester in the youth and family ministry. Same as YTMN-4313. This course is normally offered in the spring semester.

#### **4412 VITAL ISSUES IN CHILDREN'S MINISTRY**

A study of the various and unique aspects of leadership and administration necessary to be an effective Children's Minister. This course is normally offered in the spring semester of even numbered years.

### **COMMUNICATION (COMM)**

#### **1111 INTRODUCTION TO COMMUNICATION**

Exploring careers and introducing areas of Communication including journalism, sports journalism, public relations and advertising, public information positions, event planning, news producing, filmmaking, broadcasting, media production, corporate communication, leadership, etc. This course is normally offered in the spring semester.

#### **1211 INTRODUCTION TO ELECTRONIC MEDIA**

Prerequisite: Communication, interdisciplinary studies, and undeclared majors only. Designed to introduce the first-time student to electronic media and Eagle broadcasting. This course is normally offered in the fall semester.

#### **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.

#### **1371 MEDIA PRACTICUM: FILM AND MEDIA PRODUCTION**

For those successfully completing at least 60 hours of on-campus experiences in Eagle Media including Eagle Sports, Eagle Radio, and Eagle Media Production. 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.

### **2023 HISTORY OF THEATER**

Composition and reading outside of class will be required. Counts as Great Works in the university's general education requirements. This course is normally offered every semester.

### **2313 ACTING FOR STAGE AND SCREEN**

Acting for stage and screen is a course in acting fundamentals focusing on two broad areas: acting for the camera and the actor's approach to a role. This course is normally offered in the fall semester of odd numbered years.

### **2413 PHOTOGRAPHIC PRINCIPLES AND PRACTICES**

A course designed for students who need a working knowledge of photography in their chosen profession. Enrollment is limited to specific majors. The course will emphasize composition and content. No darkroom work is required. Digital cameras are allowed if the camera features manual overrides of automatic settings. This course is normally offered in the fall semester of even numbered years.

### **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 MEDIA, 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 PRODUCTION**

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 and summer semesters.

### **2723 NARRATIVE STORYTELLING**

Prerequisite: ENGL-1113.

An examination and application of the successful patterns, traditions, and conventions of narrative scriptwriting for television and film while maintaining creative innovation. During the term each student will write a script for a defined audience. This course is 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 JOURNALISTIC STORY TELLING I**

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 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 FMST-3003. This course is normally offered in the spring 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.

### **3123 ORAL INTERPRETATION**

Prerequisite: COMM-1213 or permission of instructor.

Study and practice in the oral interpretation of literature. This course is normally offered as needed.

### **3143 BASICS OF VISUAL COMMUNICATION DESIGN**

Prerequisite: ARTS-1103.

Basics of Visual Communication is a general survey of graphic arts, emphasizing techniques, processes, and procedures for putting words and illustrations in print and electronic media with particular attention to elements of effective design. Additionally, the course includes the principles of type use and the application of type in a rapidly-evolving world media, particularly electronic media and media groups where convergence is the practice of the day. This course is normally offered in the spring semester even numbered years.

### **3213 DIRECTING FOR STAGE AND SCREEN**

Fundamentals of the director's craft as applied to film and stage. This course is normally offered in the spring semester of even numbered years.

### **3233 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 in the spring semester of even numbered years.

### **3243 PLANNING, ORGANIZING, AND LEADING EVENTS**

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 odd numbered years.

### **3311 ADVANCED COMMUNICATION PRACTICUM**

Prerequisite: COMM-1311 or instructor consent.

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.

### **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 fall semester of even 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.

### **3343 CAMPAIGNS**

Prerequisite: Junior standing.

Campaigns is a two-part class that focuses first on the fields of psychology, marketing, consumer behavior and others to study how the potential buyer of a product is motivated. The second part of the class focuses on the commercial delivery systems including print, internet and broadcast mediums as well as promotional events. In the class each student will make an actual ad campaign, complete with an informed budget, for a product of the student's choice during the semester. This course is normally offered in the fall semester of even numbered years.

### **3351 ADVANCED MEDIA PRACTICUM: JOURNALISM**

Prerequisites: Junior or Senior standing and COMM-1351.

For those successfully completing at least 60 hours of on-campus journalism experiences whether online (Talon) or broadcast (Eagle Angle). This course is normally offered every semester.

### **3353 INTERPERSONAL COMMUNICATION**

An application of interpersonal communication theory and research to the study of developing relationships and family communication. Course topics include listening, non-verbal communication, conflict management, and gender differences in communication. This course is normally offered in the spring semester.

### **3361 ADVANCED MEDIA PRACTICUM : PUBLIC RELATIONS**

Prerequisite: Junior Standing and four terms of COMM-1361.

For those involved in structured public relations experiences. The course provides opportunity for application and development of public relations skills in a supervised environment. To receive credit, the student must work at least 60 hours and meet goals set by the student and professor at the beginning of the term. This course is normally offered every fall semester.



**3371 ADVANCED MEDIA PRACTICUM: FILM AND MEDIA PRODUCTION**

Prerequisites: Junior or Senior standing and four terms of COMM-1371.

For those successfully completing at least 60 hours of on-campus experiences in Eagle Media including Eagle Sports, Eagle Radio, and Eagle Media Production. This course is normally offered every semester.

**3413 ARGUMENTATION AND DEBATE**

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 in the fall semester of even numbered years.

**3453 JOURNALISTIC STORYTELLING II**

Prerequisite: COMM-2833 and prerequisite or corequisite: COMM-2643.

Supervised writing to meet the professional demands of organizing and presenting information for broadcast. This course is normally offered in the fall semester of even numbered years.

**3543 STRATEGIES TO 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 fall semester of even numbered years.

**3633 AUDIO AND SOUND DESIGN**

Theories of audio production for both broadcast and non-broadcast applications. Dual and multi-track styles, digital equipment and computer editing are used. This course is normally offered in the spring semester.

**3653 FILM AND LOCATION EDITING**

Prerequisite: COMM-2643.

Television field production techniques and applications including opportunity for narrative or documentary production. Examines theories appropriate to quality audio and video production. This course is a three-credit course normally offered in the spring semester.

**3703 MOTION GRAPHICS**

Use of software (Aftereffects 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.

**3723 INTERVIEWING**

Prerequisite: Junior standing.

Provides the student with the understanding and skills necessary for a variety of interviewing situations, including radio and television. Students are taught listening skills and how to implement these techniques for more effective interviews. This course is normally offered in the spring semester.

**3743 PUBLIC RELATIONS WRITING AND SOCIAL MEDIA BRANDING**

Prerequisite: COMM-2823 or instructor consent.

Designed to survey the commonly used communications tools in public relations with emphasis on how to work with them. Students will learn to design questionnaires, create annual reports, arrange press conferences, script slide shows, and perform other public relations functions that require special expertise. This course is normally offered in the fall semester of odd numbered years.

**3823 LONG FORM WRITING & PRODUCING**

Lectures and labs in interviewing, feature writing, opinion writing, investigative journalism, sports and other specialized areas of journalism. This course is normally offered in the fall semester of even numbered years.

**3913 HOMILETICS I: PREPARATION & DELIVERY OF RELIGIOUS SPEECHES**

Prerequisite: COMM-1213.

A study of the theory, practice and evaluation of the preparation and delivery of sermons and religious speeches. Same as BIBL-3913. This course is normally offered in the fall semester.

**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.

**4123 ELECTRONIC NEWS PRODUCING**

Prerequisite: COMM 2833.

A course focused on the essential task of producing television news for broadcast, cable, or the web including newscasts, segments, and special programming. A section of the course also focuses on continuing to develop one's ability to prepare effective news packages. Producing involves a great deal of writing. Writing helps the news to be communicated effectively and efficiently. Opportunities for news producers are increasing as local stations add more newscasts or news-oriented programs to differentiate themselves from cable or satellite channels. In addition, there are many specialized channels that need producers for regular and special programming 24/7. This course is normally offered in the fall semester of odd numbered years.

**4523 CONFLICT RESOLUTION AND NEGOTIATION**

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 in the fall 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.

**4663 PRACTICE TO PUBLIC RELATIONS AND SOCIAL MEDIA ANALYTICS**

Prerequisite: Must be Public Relations major, Senior standing.

Symposium in PR Research & Practice is the capstone course in the sequence of instruction offered in public relations. This course provides students with the opportunity to apply the fundamentals of what has been learned over the course of study in public relations to actual client work. This course is normally offered in the spring semester as needed.

**4713 MEDIA LAW**

Prerequisites: Junior standing.

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.

**4723 MEDIA ETHICS**

Prerequisites: Senior standing.

Designed to introduce the student to the ethical decisions that must be made by both the practitioners and the consumers of the mass media. It is designed to supplement the legal course and give the Christian a higher standard of performance. This course is normally offered in the spring semester.

**4733 COMMUNICATION ETHICS**

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 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 MGMT-4743, and MISS-4743 This course is normally offered in the spring semester.

**4763 ADVANCED MEDIA PRODUCTION**

Prerequisites: COMM-2643, with a grade of "C" or better or COMM-3633, with a grade of "C" or better.

This course provides the opportunity to produce capstone works from one's training in media production and to read and reflect on primary materials. This course is normally offered every spring semester.

**4773 HOMILETICS II: ADVANCED HOMILETICS**

Prerequisite: BIBL-3913 or COMM-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 BIBL-4763.

**4810 SPECIAL STUDIES**

An advanced, in-depth study of a particular problem area of communication. Content varies, and course may be repeated. (1-3 hours). This course is normally offered as needed.

**4821 MEDIA INTERNSHIP**

Prerequisite: Instructor consent.

Practical experience designed to acquaint the student with a specific area of the media 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.

#### **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.

#### **4900 INDEPENDENT STUDY IN COMMUNICATION**

Prerequisite: Instructor consent.

Requires a creative project involving the student in a deeper study of some area of communication. Guided readings or research project based on prospectus is presented by the student after consultation with the instructor. The course may be taken by juniors and seniors with approval by the departmental chair after consultation with the instructor. This course is offered as needed.

### **COMPUTER ENGINEERING (CENG)**

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#### **3203 INTRODUCTION TO MICROPROCESSORS**

Prerequisite: ENGR-2544.

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.

#### **3213 COMPUTER SYSTEMS**

Prerequisite: CENG-3203.

System design using microprocessors. Top-down system design, memory mapping, interrupts and real-time events, analog and digital I/O, device interfacing, advanced programming techniques. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

#### **4113 SOFTWARE AND NETWORK ENGINEERING**

Prerequisite: CENG-3113.

A continuation of the study of data communication networks, beginning with advanced topics of modern virtual network protocols, aggregate network design principles. These principles are then applied to an in-depth study of network systems design including processors, memory architectures, and switch fabric technologies. Lecture – 2 hours; Laboratory 3 hours. This course is normally offered in the spring 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 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, 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: CENG-3213.

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**

Prerequisites: CENG 4213 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 troubleshooting, and network modeling. The course includes the use of network simulation and virtualization to 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 into ECE, CENG-3203.

A continuation of the study of data communication networks, beginning with advanced topics of modern virtual network protocols and aggregate network design principles. The course includes in-depth study of network design including processors, memory architectures and switching technologies. Students will apply these concepts in the lab by developing their own network system on a hand held mobile platform. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

#### **4732 SYSTEMS DESIGN I**

Prerequisite: Consent of ECE department.

A recap and extension of problem-solving skills introduced in earlier using a systems design approach to prepare the student for the capstone design project work of CENG-4743 and CENG-4753; topics 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 MECH-4732 and ELEC-4753.) This course is normally offered in the spring semester.

#### **4743 SYSTEMS DESIGN II**

Prerequisite: MECH-3443, MECH-4732, and instructor consent.

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. CENG-4743 and CENG-4753 constitute a single two-semester project experience. Laboratory – 6 hours. Same as MECH-4743 and ELEC-4743. This course is normally offered in the fall semester.

#### **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 CENG-4743/4753 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)**

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#### **1113 PROGRAMMING I**

Prerequisite: 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**

Prerequisites: CMSC-1113 and CMSC-1313 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**

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 provides an introduction to 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.

### 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 CYBER SECURITY

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 (ISSAP) 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 of odd numbered years.

### 4123 SOFTWARE ENGINEERING IV-TOOLS

Prerequisite: CMSC-2233 and CMSC-2313, Co-requisite: 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. This course is normally offered in the fall semester of even numbered years.

### 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 scientific, engineering, and business applications. This course is normally offered as needed.

### 4223 COMPUTER SIMULATION

Prerequisite: CMSC-2233.

An introduction to the application of programming to the design and implementation of computer simulations. Topics include simulation languages and the application of stochastic processes to simulation theory. This course is normally offered in the spring semester of even numbered years.

### 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. This course is normally offered in the spring semester of odd numbered years.

### 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, Co-Requisite: CMSC-4123.

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 of even numbered years.

### 4413 OPERATING SYSTEMS

Prerequisites: CMSC-2233 and CMSC-3443 or CENG-3203.

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.

### 4423 COMPUTER GRAPHICS

Prerequisites: CMSC-2233.

An introduction to the fundamental techniques of computer graphics. Topics include two and three-dimensional graphing, hidden-surface algorithms, animation, and applications of graphics. This course is normally offered in the fall semester of odd numbered years.

### 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. 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

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

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 professional CompTIA CLOUD+ Security certification exam. Students are required to research and present an APAP format research paper.



#### **4663 NETWORK FORENSICS**

Prerequisite: CMSC 4643.

Introduces digital forensic concepts and practices on local area 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. This course is normally offered every 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.

#### **4900 INDEPENDENT STUDY IN COMPUTER SCIENCE**

Assigned research, readings, and reports based on the need of the individual student. May be taken only with permission of the instructor and of the departmental chair. See departmental guidelines for further information. This course is offered as needed.

#### **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 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**

Comparative Criminal 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 a 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**

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.

#### **3023 CRIMINAL JUSTICE PRACTICUM**

This course is a practicum in an area of criminal justice. This course is normally offered as needed.

#### **4003 CAPSTONE: 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 American 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 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.

#### **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 offered as needed. Same as FMST-4043.

## CULTURE (CLTR)

### 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.

## 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 every 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 every semester.

### 4900 INDEPENDENT STUDY IN ECONOMICS

Prerequisites: Junior or Senior standing and approval of the chair of the school. (1-3 hours). Guided readings or research projects arranged in consultation with advisor. This course is offered as needed.

## EDUCATION (EDUC)

### 3121 ORIENTATION TO TEACHER EDUCATION

Prerequisites: ENGL-1113, grade of C or above, GPA 2.75. Corequisite: Concurrent enrollment in EDUC-3122. 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 and will begin the Teacher Education Documentation Portfolio process required by Oklahoma. This course is normally offered every semester.

### 3122 THE SCHOOL IN AMERICAN CULTURE

Prerequisites: ENGL-1113 grade of C or above, GPA 2.75. Corequisite: Concurrent enrollment in EDUC-3121. 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.

### 3131 CLASSROOM MANAGEMENT STRATEGIES

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 indepth study. Candidates will review behavior in classroom management theories in preparation for clinical practice. This course is normally offered every semester.

### 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 Humanities and Bible may enroll with permission of 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 course. This face to face course will introduce the use of Google products, Chrome Book, Swivel, 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.

#### **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**

Prerequisites: Admission to student teaching  
A one hour course for Senior education majors taken during the student teaching semester. Candidates will acquire additional knowledge in the areas of effective instructional strategies and assessment practices and apply their learning in the field via the Teacher Work Sample (TWS). This course is normally offered in every semester.

#### **4231 CRITICAL ISSUES IN EDUCATION**

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0  
Corequisite: Concurrent enrollment EDUC-4013 and student teaching.  
Candidates demonstrate skill 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.

#### **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.

#### **4422 ELEMENTARY MUSIC METHODS**

Prerequisites: EDUC-3213; Admission to Teacher Education.  
Methods for teaching general music in the elementary school. Course requirements include 18 hours of field experience. This course is normally offered in the fall semester odd years.

#### **4432 SECONDARY INSTRUMENTAL MUSIC METHODS**

Prerequisites: EDUC-3213; Admission to Teacher Education.  
Organization and administration of the instrumental curriculum, including teaching methods and materials for teaching instrumental music at secondary school levels. This course includes 18 hours of field experience. This course is normally offered in the fall semester even years.

#### **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 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 EDUC-4331.  
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

#### **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 EDUC-4331. 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.

#### **4900 INDEPENDENT STUDY IN PROFESSIONAL EDUCATION**

Prerequisites: Junior or Senior standing; Approval of the Chair of the School of Education.  
Assigned reading and reports based on the needs of the individual student. This course is offered as needed.

## **ELECTRICAL ENGINEERING (ELEC)**

#### **3303 ANALOG ELECTRONICS**

Prerequisite: Admitted into ECE.  
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 into 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.

#### **3504 SIGNALS AND SYSTEMS**

Prerequisite: Admitted into ECE.  
Time and frequency domain analysis of discrete-time and continuous-time signals and systems. Fourier, Laplace and Z transforms. Filtering and frequency response. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

#### **3523 DIGITAL SIGNAL PROCESSING**

Prerequisites: ELEC-3504.  
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.

#### 4113 COMMUNICATION SYSTEMS

Prerequisite: ELEC-3504.

Design and analysis of analog and digital communication systems in the presence noise. Topics include capacity analysis, performance criteria, modulation systems and link analysis. Lecture – 3 hours. This course is normally offered in the spring semester of odd-numbered years.

#### 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

Prerequisite: ELEC-3504.

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.

#### 4523 SOFTWARE ENGINEERING OF REAL-TIME SYSTEMS

Prerequisite: ELEC-3504.

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 fall semester.

#### 4732 SYSTEMS DESIGN I

Prerequisite: Consent of ECE department.

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 ELEC-4743 and ELEC-4753; topics 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 MECH-4732 and CENG-4732.) This course is normally offered in the spring semester.

#### 4743 SYSTEMS DESIGN II

Prerequisite: ELEC-4732. Corequisite: ENGR-3213.

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

The engineering programs encourage all students to participate in what? 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. This course is offered 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

Prerequisites: Admission to Teacher Education.

Corequisite: 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)

#### 1111 INTRODUCTION TO ENGINEERING

Prerequisite: ACT Math score of 23 or higher or MATH-1614.  
An introduction to careers in engineering and to the engineering programs at OC. Team activities and design projects. Laboratory – 3 hours. This course is normally offered in the fall semester.

#### 1113 ENGINEERING MATHEMATICS

Prerequisite: ACT Math score of 23 or equivalent or MATH-1614.  
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 every 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. Laboratory – 6 hours. This course is normally offered in the spring semester.

#### 1252 INTRODUCTION TO SOLID MODELING

Corequisite: ENGR-1113  
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 – 2 hours. This course is normally offered every 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 and ENGR-2113.  
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.

#### 2313 STATICS

Prerequisite: ENGR-1113 with a grade of "C" or better. Corequisite: PHYS-2514.  
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 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 with a grade of "C" or better 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.

#### 2544 INTRODUCTION TO DIGITAL SYSTEMS

Prerequisite: ENGR-1242.  
Develops a fundamental understanding of combinational and sequential digital circuits and the design of digital systems using various levels of modern IC technology. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

#### 2614 ELECTRICAL CIRCUIT ANALYSIS

Prerequisite: ENGR-2544.  
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.

#### 2623 MECHANICAL ENGINEERING INSTRUMENTATION

Prerequisite: PHYS-2614.  
Introduction to mechanical engineering instrumentation and electric circuit analysis. Kirchhoff's loop and node laws, operational amplifier circuits, instrument performance characteristics, error analysis, and digital data acquisition systems. Lecture – 2 hours. Lab – 3 hours. This course is normally offered in the spring semester.

#### 2700 CHRISTIAN ENGINEER SEMINAR

Prerequisite: Sophomore standing.  
Integration of the Christian faith into engineering professionalism. Topics include integrating professionalism and ethics, faith development, and purposeful service into our lives as engineering students and eventually as engineers. Students will develop and apply a code of ethics based on Christian values and professional standards. Lecture – 1 hour. 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 spring 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.

#### 3311 EXPERIMENTAL MECHANICS

Prerequisite: ENGR-2623 and ENGR-2533, Corequisite: ENGR-2523.  
An investigation of experimental methods applied to the field of Solid Mechanics. Emphasis will be placed upon collecting, analyzing, and interpreting experimental results to foster



critical thinking and upon experimental planning. Laboratory – 3 hours. This course is normally offered in the fall semester.

#### **4701 SENIOR ENGINEERING SEMINAR**

Prerequisite: CENG-4732, ELEC-4732 or MECH-4732.

Preparation for a transition from college to career. Topics include professionalism and ethics, resume and interview preparation, job and graduate school search, and leadership in and contribution to a local congregation. Presentations from potential employers and engineering alumni. Lecture – 1 hours. This course is normally offered in the fall semester.

## **ENGLISH (ENGL)**

#### **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 in the fall semester.

#### **2333 TEFL EXPERIENCE**

Introduction to English language teaching through supervised lessons with non-native Englishspeakers (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 and summer semesters.

#### **ENGL-2333 ENGLISH LITERATURE I**

It fulfills three credit hours toward TEFL Certification. This course is normally offered during the 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-2223.

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-2223 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-2223 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 the close of the Sixteenth Century. This course is normally offered in the fall semester of odd numbered years.

#### **3253 ENGLISH LITERATURE SURVEY II**

Prerequisite: ENGL-1213 and ENGL-2223 with a grade of C or better.

Non-majors by permission only.

A study of the major works of English literature from the late Renaissance through the Romantics. 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 spring semester of odd numbered years.

#### **3353 ENGLISH LITERATURE SURVEY III**

Prerequisite: ENGL-1213 and ENGL-2223 with a grade of C or better.

Non-majors by permission only.

A study of the major works of English literature from the Victorians to the present. This course is normally offered in the spring semester of odd numbered years.

#### **3413 STUDIES IN WORLD LITERATURE**

Prerequisite: ENGL-1213 and ENGL-2223 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 normally offered in the spring semester.

#### **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 even numbered years.

#### **3533 CREATIVE WRITING II**

Prerequisites: ENGL-1213 with a grade of "C" or better and ENGL-3523.

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 in the spring semester of odd numbered years.

#### **3673 AMERICAN LITERATURE SURVEY I, BEFORE 1865**

Prerequisite: ENGL-1213 and ENGL-2223 with a grade of C or better. Non-majors by permission only.

A study of early American literature from the writings of the explorers and colonists through Edgar Allan Poe. 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 fall semester of even 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 in hybrid format 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 in the fall semester of even numbered years

### 4123 THE NOVELS OF JANE AUSTEN

Prerequisite: ENGL-1213 and ENGL-2223.

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

Prerequisite: ENGL-1213 and ENGL-2223.

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-2223.

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 odd numbered years.

### 4413 STUDIES IN ENGLISH LITERATURE

Prerequisite: ENGL-1213 and ENGL-2223 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

Prerequisite: ENGL-1213 and ENGL-2223 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 in the fall semester.

### 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

Prerequisites: 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 every semester.

### 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 (NNESs). 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 in summer and 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.

### 4900 INDEPENDENT STUDY

A reading, research, or writing project related to a student's special interest or need. The course may be taken only by juniors or seniors with approval of the departmental chair and agreement by an English instructor to direct the project. This course is normally 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 emphases 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 a service or field work experience, either locally or internationally. This course is offered in the spring semester.

### 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 age 18-55, this course spends necessary time on pregnancy, maternal nutrition, young children, and older adults. This course is normally offered in the spring semester.

### 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 attain 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 fall 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.

### 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 intensities. Other areas of attention are exercise physiology in the context of health and disease, training adaptation, and limitations to exercise tolerance. Same as BIOL-3233. This class 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 apply it to a real problem or question. This class 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 semester.

### 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.

### 3453 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 BIBL-3453. This course is normally offered every semester.

### 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

Prerequisite: FMST-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. 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 PSYC-3723 and SOCI-3723. This course is normally offered every other spring semester.

### 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 these developmental transition periods. This course is normally offered in the fall semester.

### 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 the 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.

### 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 offered as needed. 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.

### 4233 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-4233. 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.

#### **4533 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.

#### **4900 INDEPENDENT STUDY IN FAMILY SCIENCE**

Prerequisite: FMST-1113.

Provides mature students an opportunity for individual research and guided readings. (1-3 hours) This course is offered as needed.

### **FINANCE (FINC)**

#### **3313 PRINCIPLES OF FINANCE**

Prerequisites: ECON-2213, 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 every semester.

#### **3513 MONEY AND BANKING**

Prerequisites: ECON-2113.

A study of the nature, history, and functions of money and monetary institutions. Particular attention is given to the central banking system, the Federal Reserve System, free enterprise, government controls, the money supply, foreign exchange, and the interrelationships between monetary theory and the theories of prices and unemployment. 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.

#### **3813 PERSONAL FINANCE**

Prerequisites: FINC-3313

An analysis of financial management for individuals and families. Areas covered include financial planning and budgeting, financial products and services, and risk management. This course is normally offered as needed.

#### **4113 ADVANCED FINANCIAL MANAGEMENT**

Prerequisite: FINC-3313.

A continuation of the basic financial management course. The course involves an in-depth study of the theories and practices related to the financial administration of the firm. Areas covered include valuation model, risk analysis, capital budgeting, capital structure and dividend policy, long term financing decisions, and asset management. This course is

normally offered in the fall semester.

#### **4123 INTERNATIONAL FINANCE**

Prerequisites: Junior Standing

Analyzes financial problems corporations face that result from operating in an international environment. Major topics covered are corporate strategy and the decision to invest abroad, forecasting exchange rates, international portfolio diversification, managing exchange risk, exposure management, cost of capital and financial structure in the multinational firm, and sources of financing. Same as INTL-4123. This course is normally offered in the spring semester.

#### **4313 FINANCIAL MARKETS AND INSTITUTIONS**

Prerequisite: FINC-3313.

An analysis of financial markets and institutions. Areas covered include 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 spring semester.

#### **4513 TOPICS IN FINANCE**

Prerequisites: FINC-3513.

The capstone course for finance. In addition to emphasizing portfolio management and international finance, the course covers the most current topics of investment finance. This course is normally offered as needed.

#### **4613 FINANCIAL MODELING**

Prerequisites: FINC-3313.

Financial data analytics used for analysis and projection. This analysis and projection will come from computer generated and software assisted systems. FINC 3313 is a prerequisite for this course. This course is normally offered in the spring semester.

#### **4713 PRINCIPLES OF INSURANCE**

Prerequisites: FINC-3313.

Comprehensive study of insurance and third party transfer of risk. This course is normally offered in the fall semester.

#### **4900 INDEPENDENT STUDY IN FINANCE**

Prerequisites: Instructor and Dean approval.

Assigned readings, reports and research projects based on the needs of the student. (1-3 hours) This course is offered as needed.

#### **4990 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)**

#### **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.

### **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 in the fall semester.

#### **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 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 fall 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.

### 2333 ASTRONOMY II

Prerequisite: GNSC-2323: General Astronomy I

A sequel to General Astronomy I, studying the instrumentation and techniques used to gather quality scientific data. The student will take a "hands on" role in using the telescopes and cameras in the university's observatory. The course is primarily lab based with astrophotography and photometry projects. 4 hours per week. This course is normally offered every spring semester.

### 2711 SOPHOMORE SCIENCE SEMINAR

Prerequisite: Must be a natural science major and GNSC-1711. Sophomore standing required.

A seminar course that instructs students 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.

### 3113 FORENSIC SCIENCE AND THE LAW

A course exploring the application of various laws and rules of evidence to the forensic sciences and how the admission of evidence derived from forensic sciences can impact the administration of justice in the United States. What forensic scientists testify to and how their sciences conform to the "Rules of Evidence" will be discussed. Lecture - 3 hours. This course is normally offered in the fall semester of even numbered years.

### 3711 JUNIOR SCIENCE SEMINAR

Prerequisite: Must be a natural science major and GNSC-2711.

A seminar that emphasizes proper experimental design and analysis, scientific writing, and scientific presentations. 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.

### 2513 HUMAN GEOGRAPHY OF THE PACIFIC RIM

Prerequisite: Acceptance to the Asian Studies Program.

This course will focus on the cultures-sociological, geographical, political, and religious-that contribute to the emergence of the present situations in the Pacific Rim countries. The students will study the historical development of a dominate culture apart from the west, the main architects of that development and the blending of this area to the world arena. The class will be assisted by lectures from area specialists in the countries visited, visual sources, primary and secondary sources, and hands-on learning via tour sites. This course is designed to take advantage of the travel opportunities afforded by your study abroad experience. This course is normally offered in the summer on the Asian Studies Program.

### 4900 INDEPENDENT STUDY IN GEOGRAPHY

Provides mature students an opportunity for individual research and guided readings (1-3 hours). This course is offered as needed.

## 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 linguistic 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 syntactical 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.

### 4900 INDEPENDENT STUDY IN ADVANCED GREEK GRAMMAR

Assigned readings and reports or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college (1-3 hours). This course is offered 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

Pre-requisite: 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

Pre-requisite: 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

Pre-requisite: 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

Pre-requisite: 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)

### 1223 TURNING POINTS IN U.S. HISTORY

A survey of the major trends, conflicts and crises of American history from the age of discovery to the present. Special attention will be paid to such topics as the settlement of the United States, the American Revolution, the Age of the Common Man, the Civil War Era, the Age of Industrialization and Urbanization, American foreign policy and the Cold War, the Civil Rights Movement, the decade of the sixties and the cultural wars. This course is normally offered every semester.

### 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 day 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 offered in the spring semester.

### 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 fall 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 normally offered in the spring 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 in the spring semester of odd numbered years.

### 2513 ENGLISH HISTORY TO 1603

A survey of English history from the Roman Conquest to the death of Elizabeth I, with emphasis on the creation of the national state and its constitutional evolution. Economic and social developments and relations with other parts of the British Isles also receive attention. This course is offered as needed.

### 2523 ENGLISH HISTORY SINCE 1603

A survey of English history from the accession of James I to the present. In addition to the themes emphasized in the first half of this survey, the rise and the decline of the British Empire are studied. 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 in the spring semester of even numbered years.

### 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 fall semester of even 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 spring semester of odd numbered years. Same as POLS-2513.

### 2903 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.

### 2923 PERSPECTIVES IN WESTERN CIVILIZATION

Prerequisite: Sophomore standing.

An examination of the political, economic, social, cultural, and religious developments of Western civilization. This course is normally offered every semester.

### 3113 AMERICAN WESTERN FRONTIER

A historical study of the western United States from the time of Spanish settlement to the present, focusing on interactions between Europeans and native inhabitants, American western expansion, and the importance of the western American folk culture. Key topics include Spanish conquistadores and missions, the Louisiana Purchase, the Oregon Trail, the Mexican-American War, Indian Wars, and the West in popular culture. This course is normally offered in the fall semester of even numbered years.

### 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 normally offered in the fall semester of even-numbered years.

### 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 normally offered in the spring semester of odd numbered years.

### 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 normally offered in the spring semester of odd numbered years.

### 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 normally offered every fifth semester.

### 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 normally offered every fifth semester.

### 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 normally offered in the spring semester of odd numbered years.

### 3913 RENAISSANCE AND REFORMATION, 1300-1648

An examination of the cultural developments which appeared first in Italy and then spread to Northern Europe. The course includes a brief survey of the Protestant revolt and its political ramifications. This course is normally offered every fifth semester.

### 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 normally offered in the fall semester of odd numbered years.

### 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 normally offered in the spring semester of even numbered years.

#### **4313 THE GILDED AGE AND PROGRESSIVE ERA, 1877-1914**

A study of the aftermath of Reconstruction, the occupation of the trans-Mississippi West, the revolutions in communications, agriculture, and industry, and their relation to political and social developments, the tariff, movements for reform, foreign relations, and the progressive movement. This course is normally offered in the spring semester of even numbered years.

#### **4343 AMERICA IN THE ERA OF THE WORLD WARS, 1914-1945**

A study which focuses on the home front during this turbulent period. Topics covered include the impact of the wars on society, the economic collapse of the nation, the transition from an agrarian society to a dominant urban culture, the revolution in thought and morals, and the growing rumblings of discontent from women and minorities. This course is normally offered in the fall semester of odd numbered years.

#### **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 normally offered in the spring semester of even numbered years.

#### **4523 HISTORY OF ROME**

A study of Rome from founding to fall, with special attention to the nature of Roman imperialism, culture, politics, and the roles of Jews and Christians in the Empire. This course is normally offered every fifth semester.

#### **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 normally offered every fifth semester.

#### **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 normally offered in the fall semester of even numbered years.

#### **4733 SENIOR HISTORY SEMINAR**

Prerequisites: Senior standing and grade of "C" or better in HIST-2123.

A capstone seminar giving history majors the opportunity to further develop their craft as historians and explore in depth a historical question that has interested them. Students interact with the faculty at an advanced level, produce a historical project and practice research skills in preparation for graduate school or for entry into their professions. This course is normally offered in the fall semester.

#### **4810 SPECIAL STUDIES**

Content varies. Course may be repeated (1-3 hours). This course offered as needed.

#### **4900 INDEPENDENT STUDY IN HISTORY**

Provides mature students an opportunity for individual research and guided readings. (1-3 hours) This course offered as needed.

## **HONORS PROGRAM (HONR)**

THE PREREQUISITE FOR ALL HONORS COURSES IS ADMISSION TO THE HONORS PROGRAM.

#### **1010, 1020 SYMPOSIUM**

Content changes each semester, but the course focuses on current issues or concerns related to other courses in the program. 1010 is normally offered in the fall semester and 1020 is normally offered in the spring semester.

#### **1114 WESTERN THOUGHT AND EXPRESSION THROUGH THE RENAISSANCE**

An interdisciplinary analysis of the confluent events and expressions – historical, political, religious, philosophical, artistic, scientific, and mathematical – that have shaped Western thought, values, and culture through the Renaissance. In particular, the course focuses on those aspects of early Western civilization that have directly influenced our current thinking and culture. This course is normally offered in the fall semester.

#### **1124 WESTERN THOUGHT AND EXPRESSION SINCE THE RENAISSANCE**

An interdisciplinary analysis of the confluent events and expressions – historical, political, religious, philosophical, artistic, scientific, and mathematical – that have shaped Western thought, values, and culture since the Renaissance. The course focuses on the rise of individualism, new scientific discoveries, and the globalization of economies and war. 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.

#### **1214 THE BIBLE AND CLASSICAL LITERATURE**

A careful study of key biblical texts and the worldview they teach juxtaposed with a study of classical texts from the ancient Greek and Roman civilizations. Students study the similarities of theme and artistic form between the two types of text and analyze the different responses they offer to our human condition and needs. This course is normally offered in the fall 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 interacted to produce many of the human values common to contemporary Western civilization. This course is normally offered spring semester.

#### **2010, 2020 SYMPOSIUM**

Content changes each semester, but course focuses on current issues or concerns related to other courses in the program. 2010 is normally offered in the fall semester and 2020 is normally offered in the spring semester.

#### **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.

#### **3111, 3121, 4111 HONORS SYMPOSIUM**

An Honors symposium led by experts from various disciplines on topics specific to their respective areas of study and/or research. The purpose of the symposium is to encourage honors students to think critically and broadly, to communicate effectively, and to make application of the knowledge specific to their fields of study. One of these courses is normally offered every semester.

#### **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, student 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: HIST-2903-Studies in European Civilization, HIST-3143-Human Geography of Pacific Rim). This course is normally offered as needed.

#### **4121 SENIOR HONORS SEMINAR**

Honors research project, thesis, or extensive service project designed and completed by the honors student with the approval of the Director of the Honors Program and under the guidance of an OC faculty member. This course is normally offered every semester.

## **INFORMATION SYSTEMS (INFO)**

#### **3113 PRINCIPLES OF ELECTRONIC BUSINESS**

A comprehensive study of the organizational needs for information and the conceptual, technological, and practical foundations of information systems in order to build an understanding of the value of information systems for business operations, management decision making, and strategic advantage. An introduction to the concepts of electronic business as facilitated by the Internet, World Wide Web, and related technologies. The topics covered include an understanding of the catalysts for e-business (business-to-business and business-to-customer), convergence of technologies and capabilities, technological challenges, Web design, behavior and educational challenges, organizational and business barriers, and strategies for e-business. This course is normally offered every semester.

#### **3223 DATA VISUALIZATION WITH TABLEAU**

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.

#### **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 semester.

#### **4900 INDEPENDENT STUDY IN INFORMATION SYSTEMS**

Prerequisites: Junior or Senior standing and approval of the dean of the college. (1-3 hours).



Assigned readings, reports, research projects, and system development projects based on the needs of the student. A maximum of 3 hours may be counted toward the major. This course is normally offered as needed.

## INTERNATIONAL STUDIES (INTL)

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### 3313 INTERNATIONAL BUSINESS

Prerequisites: ECON-2113.

An overview of the world of international business. This class examines the environment and management of international business, stressing the effects of the foreign exchange markets, capital markets, and international financial and economic organizations upon managerial functions such as exporting and importing, foreign investment, marketing, personnel, accounting, and finance. This course is normally offered every semester.

## JAPANESE COURSES (JAPN)

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### 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.

## LEADERSHIP (LDSH)

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### 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.

### 2011 COMMUNITY LEADERSHIP SEMINAR

This course is an elective available by invitation only and is not related to the Honors Core Curriculum. Students will network with community leaders to learn practical leadership skills. No direct pre requisites are required for this course, however, nominees should be a sophomore or above, hold at least a cumulative gpa of 3.0, be in good standing with the university, and attend an entry interview before joining the course. This course is normally offered in the spring semester.

## MANAGEMENT (MGMT)

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### 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 every semester.

### 3213 OPERATIONS MANAGEMENT

Prerequisites: MGMT-3113 and MATH-2913.

A study of the production operations function in business including the creation of both goods and services. Attention is given to the design, location, and operation of the productive system and its interrelationship with other systems in the organization. The course places special emphasis on the use of quantitative technique in decision making. This course is normally offered in the fall 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 normally offered in the fall 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.

### 4413 INTERNATIONAL MANAGEMENT

International management is an analysis of cultural impacts on International management and International business. Along with information technology, international management is the major challenge facing organizations entering the new millennium. All countries and companies are now part of the super competitive global marketplace. Emphasis is placed on the emerging role of the global manager as a cosmopolitan, communicator, negotiator, creator of synergy, and change leader. Seven major world regions – North America, Latin America, Asia, Europe, Middle East, India, and Africa – are discussed for matters of cultural specifics. This course will provide a balanced approach to International Management by

discussing international environment, culture, strategy and functions and organizational behavior and human resource management. This course is normally offered in the fall 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 every 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 COMM-4743, and MISS-4743 This course is normally offered in the spring semester.

### 4990 INTERNSHIP IN MANAGEMENT

Prerequisites: Admission to College of Business Administration upper division, completion of MGMT-3113 and approval of advisor and chair.

Supervised and approved management 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.

## MARKETING (MKTG)

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### 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 every semester.

### 3413 CONSUMER BEHAVIOR

Prerequisites: Junior standing.

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.

### 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.

### 4313 PROMOTIONAL STRATEGIES

Prerequisite: Junior standing, or instructor approval.

An introduction to the various communication channels available for the spread of promotional information about goods, services, and ideas to prospects. The course gives special attention to behavioral considerations and places particular emphasis upon the duties of marketing managers in planning, implementing, and controlling a program of promotional communication. This course is normally offered in the spring semester.

#### 4513 MARKETING RESEARCH

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 analytical ability, to familiarize the student with the basic marketing research tools, and to develop the student's proficiency in the art of writing 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 semester.

#### 4723 GLOBAL MARKETING

This course discusses the marketing of goods, services, and ideas in the context of a multinational environment. Same as INTL-4723. This course is normally offered in the spring 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 23 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 23 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 business, computer science, mathematics, nursing, or science. This course is normally offered in the spring semester.

#### 1223 MATHEMATICAL FUNCTIONS AND MODELING

Prerequisite: SDEV-0103 or a 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 business, computer science, mathematics, nursing, science, or social science majors. This course is normally offered every semester.

#### 1523 TRIGONOMETRY

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher.

A study of trigonometric equations, their graphs, and inverses. Other topics include trigonometric identities, trigonometric equations, radian degree measure, and the polar coordinate system. This course is offered as needed.

#### 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 every 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, congruencies, 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.

#### 3623 INTRODUCTION TO ANALYSIS

Prerequisite: MATH-2214

A rigorous approach to the usual topics encountered in Calculus I, II, & III such as limits, continuity, differentiation, integration, and infinite series. The course is intended to prepare the student for more advanced analysis courses such as Advanced Calculus, Introduction to Real Analysis, or Introduction to Complex Analysis usually encountered at the first year graduate level. The construction of mathematical proofs will be emphasized. This course is offered as needed.

#### 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.

### 4513 POINT SET TOPOLOGY

Prerequisites: Any two math courses numbered 3000 or above.

Theory of point sets and abstract spaces with applications to analysis. This course is offered as needed.

### 4900 INDEPENDENT STUDY IN MATHEMATICS

Prerequisite: Juniors or seniors with approval of the instructor and of the departmental chair.

Assigned research, readings, and reports based on the needs of the individual student. (1-3 hours.) This course is offered as needed.

## MECHANICAL ENGINEERING (MECH)

### 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 normally offered in the fall semester.

### 3443 FLUID MECHANICS

Prerequisite: ENGR-2433.

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.

### 3453 THERMODYNAMICS II

Prerequisites: ENGR-2433.

A continuation of thermodynamics topics such as unsteady processes, advanced cycles, gas mixtures, psychrometrics, chemical and phase equilibrium, combustion analysis, thermodynamic property relations and compressible flow. Lecture – 3 hours. This course is normally offered in the fall semester.

### 3611 MANUFACTURING PROCESSES

Prerequisites: 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.

### 3813 MECHATRONICS

Prerequisite: ENGR-2623.

Common applications of diodes and transistors plus concepts and applications of digital systems, including micro-processor based systems. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

### 4113 MECHANICAL APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS

Prerequisite: MATH-3013.

Partial differential equation applications to common mechanical engineering problems. Parabolic, hyperbolic, and elliptic equations. Emphasis on analytical solution methods. Lecture – 3 hours. This course is normally offered in the fall semester.

### 4133 DYNAMIC SYSTEMS AND CONTROLS

Prerequisites: ENGR-2523 and ENGR-2623.

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 response analysis, root locus and Nyquist stability criteria. Design of mechanical engineering control systems. Lecture – 3 hours. This course is normally offered in the spring semester.

### 4143 FINITE DIFFERENCE METHODS

Prerequisites: MATH-3013.

Ordinary and partial differential equation application to common mechanical engineering

problems. Review of analytical solutions, but emphasis on development and solution of numerical models.

Lecture – 3 hours. This course is normally offered in the spring semester.

### 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.

### 4311 THERMAL-FLUIDS LAB

Prerequisites: ENGR-3311

Corequisite: MECH-4243.

Application of experimental methods for pressure, temperature and flow measurement to thermodynamic systems, fluid power devices, heat exchangers, and aerodynamic surfaces. Data collection, analysis and interpretation of results with emphasis on report writing. Laboratory – 1 hours. This course is normally offered every semester.

### 4313 AERODYNAMIC DESIGN

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.

### 4523 FINITE ELEMENT ANALYSIS

Prerequisite: MATH-3013 and MECH-3613.

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 fall 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. This course is normally offered online.

### 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, nano-material, 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

Prerequisites: 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. Same as ELEC-4732 and CENG-4732. 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. Laboratory – 6 hours. Same as ELEC-4753 and CENG-4753. This course is normally offered every semester.

### 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

Prerequisite courses include: 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.

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

Prerequisite courses required: 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 courses is required: MLSP-4001, 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

Prerequisite courses required are 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 courses is required: MLSP-4001, MLSP-4012. This four hour course is a study of the major blood groups of humans including the red cell antigen systems, alloantibodies, and non-immune stimulated antibodies. The relationship of blood group systems to compatibility testing, transfusion reactions, and hemolytic disease of the newborn will be discussed. This course is usually offered during the fall semester.

### 4011 URINALYSIS AND BODY FLUIDS

Prerequisite courses required: 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 courses 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 BLOODBANK PRACTICUM

Prerequisite courses required are 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 courses is required: MLSP-4001, 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

Prerequisite courses include 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 courses is required: MLSP-4001, MLSP-4002. This three hour 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

Prerequisite courses required: 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 courses 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.

### 4101 MEDICAL LABORATORY SCIENCE CERTIFICATION REVIEW

Prerequisite courses required: 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-4001 MLSP-4002 MLSP-4004.

Concurrent enrollment in the following courses is required: MLSP-4102, MLSP-4103,

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

Prerequisite courses required: 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 courses 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

Prerequisite courses required: 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.

Concurrent enrollment in the following courses is required: MLSP-4122. This three hour course cover 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

Prerequisite courses required: 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 MLSP-4021.

Concurrent enrollment in the following courses 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 emphasizing 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

Prerequisite courses required: 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-4021.

Concurrent enrollment in the following courses is required: MLSP-4104, 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 position. This course is usually offered during the spring semester.

### 4122 CHEMISTRY PRACTICUM

Prerequisite courses required: 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-4001 MLSP-4021.

Concurrent enrollment in the following courses is required: MLSP-4103 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 position. This course is usually offered during the spring semester.

## MISSIONS (MISS)

### 3003 VOCATIONAL MINISTRY

A course that examines a range of issues related to Christian ministry when it is not fully remunerated by a church or parachurch agency. Emphasis is placed on applying one's gifts and talents in diverse fields of endeavor that are commonly viewed as "secular" but with the explicit goal of building up the kingdom of God worldwide. Non-textual. Same as BIBL-3003. Normally offered in the even spring semester.

### 3013 MISSION PREPARATION

A course taught by one who has served as a missionary. The following subjects are treated: the New Testament concept of missions and missions today; a description of the work of a missionary; doctrinal preparation for the mission field; emotional preparation; spiritual preparation; preparing the supporting home church missionary cycle, entering the host country; communicating with the home church; effective missionary methods for various fields; maintaining physical, mental, emotional, social, and spiritual health in the mission field. Non-textual. Same as BIBL-3033. This course is normally offered in the spring semester of even numbered years.

### 3033 SCRIPTURE AND MISSION OF GOD

The primary assumption of this course is that Christian Scripture witnesses to God who created the world, deeply cares for the world, is active in the world, and has a purpose for creation. In other words, the Bible witnesses to the God of missions. This course

will explore a missional interpretation of scripture, or how to read scripture in light of the mission of God. It will also examine how the Biblical text bears witness to God's mission and how it calls and equips Christians and Christian communities to participate in God's mission. Same as MISS-3033. Normally offered fall semester of odd numbered years.

### 3113 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 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 three major regions of Asia. Fulfills the core curriculum non-Western civilization requirement. Same as SOCI-3143. Non-textual. This course is offered as needed.

### 3153 URBAN MINISTRY

An examination of diverse aspects of ministry within urban contexts both in the United States and abroad. Topical areas covered include cities in the Bible, principles of urban evangelism and missions, urban church growth, and ministry in contexts of ethnic, racial, and socioeconomic diversity. Non-textual. This course is normally offered in the spring semester.

### 3213 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. Non-textual. This course is normally offered in the fall semester of even numbered years.

### 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. Non-textual. Same as BIBL-3333. This course is normally offered in the spring semester of even numbered years.

### 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. 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. This course fulfills the non-Western civilization requirement in the Core Curriculum. Same as SOCI-3613. This course is normally offered every spring semester.

### 3673 NEW RELIGIOUS MOVEMENTS

This course examines both religious and quasi-religious teachings and practices in a variety of newer religious movements of diverse cultural and philosophical origins. This course fulfills the non-Western civilization requirement in the Core Curriculum. Same as SOCI-3673. This course is offered as needed.

### 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.

### 4313 MISSIONS IN THE CONTEMPORARY WORLD

A study of the impact of various issues upon mission work as it is actually being carried out today around the world, taught by a visiting missionary. Content varies according to the particular field experience of the instructor. Non-textual. Same as BIBL-4303. This course is normally offered as needed.

### 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. This course is normally offered in the spring semester of odd numbered years.

### 4643 INTERCULTURAL COMMUNICATION II

Prerequisite: ENGL-1213 or 2113.

A continuation of MISS-4633, typically taught while a student is living in a foreign culture. Same as ENGL-4643 and SOCI-4643. Non-textual. This course is offered as needed.

### 4714 MISSIONS PRACTICUM

On-site supervised ministry experience in a missions situation, either foreign or domestic, by invitation and with a faculty supervisor. The course includes readings, a journal, and a thorough evaluation by the field supervisor. Non-textual. This course is offered as needed.

### 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.

### 4813 MISSIONS EXPERIENCE

Content varies. Course may be repeated. This course is offered as needed.

### 4900 INDEPENDENT STUDY IN MISSIONS

Assigned readings, reports or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college. (2-3 hours) This course is offered as needed.

## 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 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.

### 1301 VOCAL ENSEMBLE

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. 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 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. Offered spring semester. 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 opportunity for students to listen to recordings and to attend concerts. This course is normally offered every semester.

## MUSIC THEORY SEQUENCE III

The two courses below cover modulation to closely related keys, altered chords and higher discords, original melodies and harmonizations, 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 department 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.

### 2512 DICTION I: ENGLISH AND ITALIAN

Prerequisite: For vocal majors and minors; others by permission.

A study of the International Phonetic Alphabet as it pertains to the singing of English and Italian song and opera literature. This course is normally offered in the spring semester of odd numbered years.

### 2522 DICTION II: FRENCH AND GERMAN

Prerequisite: For vocal majors and minors; others by permission.

A study of the International Phonetic Alphabet as it pertains to the singing of German and French song and opera literature. This course is normally offered in the fall semester of odd numbered years.

### 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 instrument 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 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 spring of odd numbered years.

### 3412 ORCHESTRATION

A practical study of the technical scope of orchestral and band instruments, providing introductory performance experience in instrumental families. Students will complete transcription exercises for each instrument family and a major transcription project for large instrumental ensemble. Fluency with computer programs is expected. This course is normally offered in the fall semester of even numbered years.

### 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 at 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.

### 4900 INDEPENDENT STUDY IN MUSIC

Music majors only, or by approval of the department chair. Arranging, composition, sixteenth-century counterpoint, or other study. Three hours total applicable toward graduation. (1-3 hours) This course is offered as needed.

## NURSING (NURS)

### 1011 INTRODUCTION TO NURSING

An introductory nursing course designed to acquaint the student with a historical nursing perspective from the beginnings of the profession to current professional developments. Students will be introduced to nursing trends and changing national and global health care delivery methods. Lecture – 1 hour. This course is normally offered in the fall semester.

### 2003 HEALTH ASSESSMENT

Prerequisites: BIOL-1013

Corequisite: BIOL-2523.

Course focuses on the nursing process and how clinical diagnosis is performed. Students

will learn to assess the client's physical, psychological, social, and spiritual dimensions as a foundation to nursing care. The skills of interviewing, documentation, inspection, percussion, palpation, and auscultation are refined to make clinical judgments and promote health/client outcomes. Lecture – 2 hours; Clinical – 1 hour. This course is normally offered in the fall semester.

### 2013 FUNDAMENTALS OF NURSING

Prerequisites: BIOL-1013, CHEM-1104, BIOL-2523, NURS-2003

Corequisite: BIOL-2623.

An introductory course emphasizing nursing skills and nursing process. Nursing theory and concepts related to the human response to illness will be explored. Emphasis is placed on the development and integration of therapeutic communication skills, nurse/client relationships, developmental needs, cultural diversity and legal/ethical issues. Lecture – 2 hours, Clinical – 1 hour. This course is normally offered in the spring semester.

### 2033 PATHOPHYSIOLOGY AND PHARMACOLOGY I

Prerequisites: BIOL-1013, BIOL-2523 and CHEM-1104

Corequisite: BIOL-2623.

Course is designed as an introduction to pharmacological principles, drug classifications, and expected therapeutic outcomes associated with drug therapy. Nursing process and drug therapy are discussed in relation to clients' developmental levels and health habits across their lifespan. Lecture – 3 hours. This course is normally offered in the spring semester.

### 3013 PATHOPHYSIOLOGY AND PHARMACOLOGY II

Prerequisites: Admission to the nursing program.

A course studying the alterations in physiological well-being across the lifespan as pathological responses to disease, stress, genetics, and environmental changes occur within the body. Critical thinking, research findings, and scientific knowledge are applied to analyze individual outcomes throughout the course. Lecture – 3 hours. This course is normally offered in the fall semester.

### 3014 MENTAL HEALTH NURSING

Prerequisites: Admission to the nursing program

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 complex therapeutic nursing interventions for a variety of mental health disorders. Continued development of communication skills, professionalism, teaching/learning principles, ethical/legal, and economic issues are incorporated throughout the course. Lecture – 2 hours; Clinical – 2 hours. This course is normally offered in the fall semester.

### 3015 ADULT NURSING I

Prerequisites: Admission to the nursing program.

A course focusing on medical-surgical nursing care of culturally diverse adult patients across the life span who are experiencing chronic health problems and end-of-life issues. The concept of caring is emphasized with a focus on individuality and cultural diversity. Implementation of the nursing process in a health care setting will focus on using basic teaching-learning principles for practice. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the fall semester.

### 3024 MATERNAL-INFANT HEALTH NURSING

Prerequisites: NURS-3013, NURS-3014, and NURS-3015.

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. This course encompasses knowledge of growth and development, cultural diversity, and assessment techniques for pregnant women and newborns. Lecture 2 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

### 3025 ADULT NURSING II

A course which builds upon the medical-surgical concepts learned in Adult I, focusing on adult patients experiencing common acute and chronic health problems across the lifespan. The effects of families and community groups are to be examined. Through application of the nursing process, students learn to provide complex therapeutic nursing interventions while using critical thinking skills. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

### 3034 HEALTH CARE MISSIONS AND CHRISTIAN SERVICE

Prerequisites: NURS-3013, NURS-3014, and NURS-3015.

A course designed to focus on Christian concepts and principles as applied to global health service. Participation in health care delivery system of selected communities or countries is an integral component. Lecture – 2 hours; Clinical – 2 hours. This course is normally offered in the spring semester with clinical hours being completed in the first 3 weeks of May.

### 4005 COMMUNITY HEALTH NURSING

Prerequisites: Senior standing in nursing.

A course focusing on organization and delivery of nursing care to individuals, families, and groups in a variety of community health care settings. Emphasis is placed on prevention of disease, health promotion, and control of communicable disease within the community. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the fall semester.

### 4011 CAPSTONE IN NURSING

Prerequisites: NURS-4005, NURS-4015, and NURS-4022.

A synthesis course within the nursing program preparing the student for licensure. Students develop an outcome report of their learning experiences which combine theory content and computer technology. National achievement exams will be an integral component of this course in preparation and review for NCLEX. Lecture – 1 hour. This course is normally offered in the spring semester.

### 4015 CHILD AND FAMILY HEALTH NURSING

Prerequisites: Senior standing in nursing and MATH-2913 and PSYC-3523.

A course focusing on concepts of professional nursing care and implementation of the nursing process with pediatrics and their families. Emphasis of developmental variances, cultural diversity, family dynamics, and pathophysiology of childhood diseases are incorporated throughout the course. Lecture – 3 hours, Clinical – 2 hours. This course is normally offered in the fall semester.

### 4022 ISSUES AND TRENDS IN NURSING

Prerequisites: Senior standing in nursing.

A theory course which addresses moral, ethical, and legal issues within the nursing profession. The student's transition into professional nursing practice will be addressed, including career planning and the student's professional role for future practice. Lecture – 2 hours. This course is normally offered in the fall semester.

### 4024 LEADERSHIP AND MANAGEMENT IN NURSING

Prerequisites: NURS-4005, NURS-4015, and NURS-4022.

An introduction to the concepts of leadership and management principles related to nursing practice for preparation for role transition from student to graduate. This course includes a concentrated senior precepted clinical experience (90 hours) in a selected practice area. Lecture – 2 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

### 4025 ADULT NURSING III

Prerequisites: NURS-4005, NURS-4015, and NURS-4022.

A course focusing on nursing care of adult patients across the lifespan in the critical care setting who are experiencing complex, multi-system health problems and life-threatening illness or injuries. Emphasis is placed on interdisciplinary collaboration and on psychological, cultural, social, economic, and spiritual concerns of patients and their families. Advanced technology, assessment skills, and collaborative practices are explored. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

### 4033 NURSING RESEARCH AND EVIDENCE BASED PRACTICE

Prerequisites: NURS-4005, NURS-4015, NURS-4022, and MATH-2913 or BIOL-2913.

This course introduces the research process and study designs for quantitative, qualitative, and mixed methods research. Students learn the skills needed to read nursing research reports, critique studies, and identify findings appropriate to apply in nursing practice. These skills are used in the development of an evidence based practice project. Lecture – 3 hours. This course is normally offered in the spring semester.

## PHYSICS (PHYS)

### 1114 COLLEGE PHYSICS I

Prerequisite: 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 every 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 every semester and summer.

### 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.

### 4900 INDEPENDENT STUDY IN PHYSICS

Assigned research, readings, and reports based on the needs of the individual student. May be taken only with the permission of the instructor and the departmental chair. This



course is offered as needed.

## POLITICAL SCIENCE (POLS)

### 2113 INTRODUCTION TO AMERICAN GOVERNMENT

A survey of the rules (the Constitution), institutions (the Presidency, Congress, the courts, and the bureaucracy), participants (voters, parties, interest groups, and the media), and products (social, economic, and foreign policy) of democratic politics in the United States. This course is normally offered in every semester.

### 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. This course is normally offered in the spring semester of even-numbered years.

### 2313 RESEARCH SKILLS IN POLITICAL SCIENCE

Prerequisite: POLS-2113 or POLS-2213.

A survey of several methods of conducting original research projects, which may include survey research, experiments, content analysis, statistical analysis, and case studies. Students learn to identify research questions, to formulate strategies for answering them, to conduct the research, and to write up the results. This course is normally offered in the spring semester of even-numbered years.

### 2413 COMPARATIVE POLITICS

A survey of the major political systems, levels of government and inter-governmental 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.

### 3313 LEGAL AND LEGISLATIVE ANALYSIS

Prerequisites: Sophomore standing and POLS-2113.

A workshop format teaching the analysis of statutory and case law in the United States. Workshop topics include briefing cases, researching cases and statutes, writing legal memos, writing legal outlines, and taking hypothetical case exams. Developing these skills is excellent preparation for law school. This course is normally offered in the spring 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 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.

### 4900 INDEPENDENT STUDY IN POLITICAL SCIENCE

Provides mature students an opportunity for individual research and guided readings. (1-3 hours) 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.

### 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 analyses 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.

### **3523 DEVELOPMENTAL PSYCHOLOGY**

Prerequisites: PSYC-1113.

The physical, mental, and social development of the normal individual from conception through adolescence. This course is normally offered every semester, including summers.

### **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 anti-social 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.

### **4613 INTRODUCTION TO PSYCHOLOGICAL TESTING**

Prerequisite: PSYC-2413.

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-2413.

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.

#### **4900 INDEPENDENT STUDY IN PSYCHOLOGY**

Assigned research, readings and reports based on the needs of the individual student. May be taken only by junior or senior psychology majors or minors with approval of the departmental chair. (1-3 hours) This course is normally offered in the spring semester.

## **SOCIOLOGY (SOCI)**

#### **1113 PERSPECTIVES IN 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.

#### **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. Fulfills the core curriculum non-Western Civilization requirement. Same as MISS-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. Fulfills the core curriculum non-Western civilization requirement. Same as MISS-3513. Non-textual. This course is normally offered every semester.

#### **3523 SOCIOLOGY OF CRIME**

Prerequisite: PSYC-1113

Psychological aspects of criminal and anti-social behavior, including comparison of psychological and legal factors in criminal investigation and testimony. Same as PSYC-3913. This course is normally offered in the spring semester of odd numbered years.

#### **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 MISS-3613. This course is normally offered every spring semester.

#### **3673 NEW RELIGIOUS MOVEMENTS**

This course examines both religious and quasi-religious teachings and practices in a variety of newer religious movements of diverse cultural and philosophical origins. This course fulfills the non-Western civilization requirement in the Core Curriculum. Same as MISS-3673 and SOCI-3673. This course is offered as needed.

#### **3713 CONTEMPORARY 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 BIBL-3713. 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 MISS-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 MISS-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 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.

#### **3723 METHODS OF TEFL I**

Prerequisite: SPAN-2123.

An introduction to the techniques and methods of teaching English as a second language, including the development of teaching materials and participation in a mini practicum. This course is normally offered in the spring semester of odd numbered years.

#### **4113 STUDIES IN SPANISH LITERATURE**

Prerequisite: SPAN-2123.

A study of major authors, works, and movements in Spanish literature. This course may be repeated as the content is changed. This course is normally offered in the spring semester of even 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.

#### **4313 ADVANCED GRAMMAR AND COMPOSITION**

Prerequisite: SPAN-2123.

A survey of the Spanish language and its grammatical system, with specific attention to those skills required for advanced language proficiency. This course is normally offered in the fall semester of even numbered years.

#### **4413 ADVANCED SPANISH CONVERSATION**

Prerequisite: SPAN-2123.

Guided development in oral proficiency, emphasizing pronunciation, vocabulary development, and mastery of complex structures and public presentations. This course is normally offered as independent study and by instructor permission only.

#### **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 intense Spanish conversation and Hispanic culture course. 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 in the spring semester of even numbered years.

#### **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.

#### **4900 INDEPENDENT STUDY**

A reading, research or writing project related to a student's special interest or need. May be taken only by juniors or seniors with approval of the departmental chair. This course is offered as needed.

*Retroactive Credit for Foreign Language – See page 21.*

### **SPORTS MANAGEMENT (SPMG)**

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#### **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.

#### **3323 SPORTS ANALYTICS**

Prerequisite: INFO-3223.

This course will discuss the theory, development, and application of analytics in sports for purposes of in-game strategy, player performance, team management, and sports business operations, among many other topics. This course is normally offered in the spring semester.

#### **3333 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.

#### **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: JR 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 FACILITY AND EVENTS**

Prerequisite: JR 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: JR 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.

#### **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)**

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#### **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.

### **STUDENT DEVELOPMENT (SDEV)**

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#### **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.

#### **0123 DEVELOPMENTAL WRITING**

A grammar and writing course designed to develop the basic skills necessary for successful college writing. The course may be required as a prerequisite to ENGL-1113-English Composition I depending on the student's ACT English verbal scores (18 & below) or other equivalent measures. This course is graded with a (P) Passing or (NP) No Passing grading system. Students enrolled in SDEV-0123 must make a P (Passing) in order to enroll in ENGL-1113-English Composition I. Not applicable for credit in major or minor. This course is normally offered every semester.

#### **1102 PERSONAL AND PROFESSIONAL STRATEGIES FOR SUCCESS**

A comprehensive course designed to assist students to maximize their success at the university and after graduation. Time management, conflict resolution, career exploration and preparation, and learning styles and strengths will be covered. In addition to in-class activities, students will participate in peer mentoring and other enhancement activities. This course is normally offered every semester.

#### **2011 DISCOVERING YOUR STRENGTHS**

This course is designed to serve the needs of students who have not yet chosen a college major or students who question whether or not their current major is the right one for them. This class allows students to discover more fully their strengths and interests and, as a result, to identify appropriate careers and majors it also helps students develop high performance skills such as critical thinking. This course is normally offered as needed.

#### **2113 SUCCESS IN COLLEGE AND LIFE**

This course assists students in transitioning into and out of university life. The class acquaints students with techniques that encourage student success, improve and refine academic skills, and develop skills and attitudes needed to achieve educational and personal goals. This course is normally offered in the fall and spring semesters.

#### **3111 LEADERSHIP SEMINAR**

A study of the definitions of leadership, leadership skills, and models of leadership in scriptures, politics, and business. Practical applications of leadership principles to the OC social club system, including daily administration of the club system through Inter-Club Council (ICC). Seminar is open only to the presidents of social service clubs. This course is offered as needed.

### **YOUTH MINISTRY & FAMILY MINISTRY (YTMN)**

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#### **2123 COUNSELING ADOLESCENTS**

An introductory class of current problems that adolescents face in American culture (e.g., self-acceptance, peer pressure, friendship and dating, pregnancy, anorexia nervosa, music, drugs and drinking, and sexual acting out). The class will involve reading, listening, and dialoguing with guest speakers from the field, listening to and discussing lectures, critiquing videos, and participating in and critiquing simulations in the classroom from biblical and practical perspectives. Field visits to the juvenile court system and interviews with local youth ministers will allow students to compare classroom instruction with the real world of

adolescents. A brief introduction to family systems will be included. This course is normally offered in the spring semester of odd numbered years.

#### **2213 INTRODUCTION TO YOUTH AND FAMILY MINISTRY AS A PROFESSION**

An introduction to the field of study in youth and family ministry. Emphasis will be given to the private and the professional aspects of this profession. Some private issues such as spiritual disciplines, health, family relationships, and personality type will be discussed. Professional issues centering on ethics, integrity, sexuality, education, job skills, leadership, youth ministry tools and resources, teaching, youth and family ministry as a lifetime career, and others will be discussed as well. Concepts will be given to students to begin developing a philosophy of youth and family ministry. Field trips to different parts of Oklahoma City/Edmond will be required for students to interview people in several different contexts working in this profession. This course is normally offered in the spring semester of even numbered years.

#### **2233 EXPERIENTIAL TEACHING METHODS IN THE OUTDOORS**

An introduction to teaching adolescents using experiential teaching methods used in outdoor adventure learning. Emphasis will be given to the preparation and presentation of object lessons in the outdoors using biblical texts. Students will work in groups to plan and carry out a 2-3 day outdoor adventure. Interviews with camp directors and team building organizations will give students up-to-date experience in contemporary settings where adolescents might experience outdoor learning opportunities. This course is normally offered in the spring semester of even numbered years.

#### **3113 EVANGELISM, DISCIPLESHIP, AND SPIRITUAL FORMATION WITH ADOLESCENTS**

Students will study and explore methods of evangelism particularly effective with adolescents. One-on-one Bible studies, small group Bible studies, and large evangelistic group meetings will be evaluated for effectiveness in today's culture. Emphasis will be given to the process of spiritual formation within the family before and after the conversion experience. Methods of discipleship will be explored and practiced during the course. Students will develop a presentation of their own faith story and work on their own continuing spiritual formation. This course is normally offered in the spring semester of even numbered years.

#### **3203 MODELS AND PROGRAMMING IN YOUTH MINISTRY**

This course introduces the student to the current models of youth ministry and programming (i.e., PDYM, Cells, Relational, Young Life, FCA, Sonlife, K-Life). Philosophies of the different models will be discussed allowing the student to integrate a model(s) into his/her philosophy of ministry. Types of programming will be discussed that fit one or several of the models. Students will present a one-year program of activities and learning opportunities for adolescents using the student's chosen model and philosophy. Students will volunteer to work in a ministry that fits closely with the one(s) that they choose as a model. This course is normally offered in the fall semester of odd numbered years.

#### **4113 MEDIA, CULTURE, AND ADOLESCENCE**

This course will provide information and learning experiences for students in the areas of adolescent spirituality, media influence, and overall cultural influences that affect the lives of adolescents. The course will focus on how a biblically-grounded spirituality can provide answers to the issues that adolescents face in our culture today. Fowler's Stages of Faith and research from The National Study of Youth and Religion will be used as a backdrop along with scripture to develop a working profile of adolescent spirituality. The use of audio and video media as well as the special moral problems of media and the effects media has on adolescents will be examined. This course is normally offered in the fall semester of even numbered years.

#### **4313 VOLUNTEERS, PARENTS, AND STAFF IN YOUTH AND FAMILY MINISTRY**

This course will equip students to carry out Ephesians 4:11-13. Effective youth and family ministry requires help. Students will learn how to recruit and train volunteers. Equipping parents to do their God-given job (Deuteronomy 6:4-9) will be given priority in the course. Relationships with paid and volunteer staff will be discussed. Students will be required to volunteer at a local church during the semester in the youth and family ministry. Same as CMIN-4313. This course is normally offered in the spring of odd numbered years.

#### **4413 TEACHING THE BIBLE TO ADOLESCENTS**

A study of the age characteristics, motivational principles, learning methods and curriculum for teaching the Bible to adolescents 13-18 years old. Same as BIBL-4213. This course is normally offered in the fall semester of odd numbered years.

#### **4813 YOUTH MINISTRY INTERNSHIP**

Prerequisites: BIBL-2713, one Youth Ministry class, and at least a sophomore standing. Students will work with a local church (or other approved organization working with adolescents with a spiritual emphasis) to gain experience in practical programming for ministry to middle and/or high school students. Students will be evaluated by an approved supervisor (youth minister, preacher, elder, deacon) at the church and an assigned field supervisor from the university. This course is normally offered every semester.

#### **4823 YOUTH MINISTRY-TEACHING PRACTICUM**

Prerequisite: BIBL-4413. Students will work with a local church during the spring or summer semester teaching middle or high school students a 13-week curriculum (Wednesday night or Sunday morning) approved by the church leaders. Students will be evaluated by an approved supervisor (youth minister, preacher, elder, deacon) at the church and an assigned field

supervisor from the university. This course is normally offered in the spring and summer semesters.

#### **4830 SPECIAL STUDIES IN YOUTH MINISTRY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

#### **4900 INDEPENDENT STUDY IN YOUTH MINISTRY**

Assigned readings, reports, or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college. (1-3 hours) This course is offered as needed.

#### **4913 INDEPENDENT STUDY IN YOUTH MINISTRY**

Assigned readings, reports or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college. (1-3 hours) This course is offered as needed.

# CALENDAR

## 2020 FALL SEMESTER

August 8	Saturday	Residence halls open at 8:00 AM
August 13	Sunday	Classes begin for the fall semester
August 21	Friday	Last day to add classes and for new enrollment
September 11	Friday	Last day to drop a class without a "W" on the transcript
September 29	Tuesday	Six weeks progress reports due at noon
October 5-9	Monday-Friday	Winter and January pre-enrollment
October 19	Monday	Sr graduating in the next semester pre-enrollment, myOC
October 20-21	Tuesday & Wednesday	Senior pre-enrollment, myOC
October 22-23	Thursday & Friday	Junior pre-enrollment, myOC
October 26-27	Monday & Tuesday	Sophomore pre-enrollment, myOC
October 28-29	Wednesday & Thursday	Freshman pre-enrollment, myOC
November 2	Monday	Transfer and New to OC pre-enrollment
November 6	Friday	Last day to drop a class with a "W" on the transcript or withdraw
November 15-19	Sunday-Thursday	Final Exam Week
November 20	Friday	Commencement
December 21	Saturday	Residence halls close at 10:00 AM
December 24	Tuesday	Grades due at noon for fall semester

## 2020 WINTERSESSION SEMESTER

November 30	Monday	Classes begin for wintersession
November 30	Monday	Last day to add wintersession class
December 2	Wednesday	Last day to drop a class without a "W" on the transcript
December 11	Friday	Last day to drop a class with a "W" on the transcript or withdraw
December 18	Friday	Classes end
December 22	Tuesday	Final Grades Due

## 2021 JANUARY SEMESTER

January 4	Monday	Classes begin for January semester
January 4	Monday	Last day to add wintersession class
January 6	Wednesday	Last day to drop a class without a "W" on the transcript
January 15	Friday	Last day to drop a class with a "W" on the transcript or withdraw
January 22	Friday	Classes end
January 26	Tuesday	Final Grades Due

## 2021 SPRING SEMESTER

January 23	Saturday	Residence hall open at 8:00 AM
January 24	Sunday	Classes begin for spring semester
February 1	Monday	Last day to add classes and for new enrollment
February 19	Friday	Last day to drop a class without a "W" on the transcript
March 2	Tuesday	Six weeks progress reports due by noon
March 15	Monday	Senior graduating in the next semester pre-enrollment, myOC
March 16-17	Tuesday & Wednesday	Senior pre-enrollment, myOC
March 18-19	Thursday & Friday	Junior pre-enrollment, myOC
March 22-23	Monday & Tuesday	Sophomore pre-enrollment, myOC
March 24-25	Wednesday & Thursday	Freshman pre-enrollment, myOC
March 29	Monday	New transfer and concurrent student pre enrollment
April 13	Monday	New incoming freshman pre-enrollment at 3:00 PM
April 16	Friday	Last day to drop a class with a "W" on the transcript or withdraw
May 2-6	Sunday-Thursday	Final Exam Week
May 7	Friday	Commencement
May 8	Saturday	Residence halls close at 10:00 AM
May 11	Tuesday	Grades due at noon for spring semester

## 2020 SUMMER SEMESTER

May 10	Monday	Classes begin
August 12	Thursday	Classes end
August 13	Friday	Commencement
August 17	Tuesday	Grades due at noon for summer semester