



**GRADUATE  
ACADEMIC CATALOG  
2016-2017**



**OKLAHOMA CHRISTIAN UNIVERSITY**



## A MESSAGE FROM THE PRESIDENT

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Welcome to Oklahoma Christian!

The selection of a university for your graduate education is one of the most important decisions you will make, and we are so pleased that you have entrusted your higher education to Oklahoma Christian University. Many of our alumni tell me their time at Oklahoma Christian is one of the highlights of their life. OC alumni are making a difference in businesses, schools, churches, mission fields, and other endeavors throughout the world.

Our goal at OC is to prepare you academically, socially, and spiritually for an effective life of service to your profession, your community, and your church. You will find that our talented and dedicated faculty want to know you as a person and will take a personal interest in your education and your spiritual life. The academics are rigorous and you'll be challenged to do your best. The academic achievements of our students and alumni are astounding and you can be a part of that success.

We believe you will find that OC's Christian environment provides the best opportunity for you to grow as an individual, studying with Christian professors who share our love of the Lord. Oklahoma Christian will provide you with the solid holistic foundation for an extraordinary life.

Again, welcome to OC. We are excited that you have chosen to become part of the OC family. The acquaintances you make during your time here will last a lifetime. Please do not hesitate to contact me or any of our faculty or staff members if there is anything we can do to make your time at OC more rewarding and productive.

Best wishes for an outstanding year,

A handwritten signature in red ink that reads "John". The signature is stylized with a large, bold "J" and a cursive "ohn".

John deSteiguer

## CONTENTS

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|  |    |
|--|----|
| OC at a Glance.....                                      | 4  |
| Accreditations.....                                      | 4  |
| Mission and Vision.....                                  | 5  |
| The OC Covenant.....                                     | 5  |
| The OC Graduate.....                                     | 6  |
| Graduate Admission.....                                  | 7  |
| Financial Aid and Scholarships.....                      | 7  |
| Tuition Charges and Refund Policy.....                   | 7  |
| Dropping and Adding Classes.....                         | 7  |
| Grading System.....                                      | 7  |
| Academic Policies.....                                   | 8  |
| International Students.....                              | 9  |
| Graduate School of Theology.....                         | 11 |
| Graduate School of Business.....                         | 21 |
| Graduate School of Engineering and Computer Science..... | 34 |
| Course Descriptions.....                                 | 42 |

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Wichita, Kansas

**Daryl J. Bond**  
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**Samuel J. Granberg**  
Lakewood, Washington

**James W. Ketcherside**  
McPherson, Kansas

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Oklahoma City, Oklahoma

**Hardeman Nichols**  
Dallas, Texas

**Allen L. Reese**  
Tulsa, Oklahoma

**Millie Prince Roberson**  
Norman, Oklahoma

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San Diego, California

**Mark A. Stansberry**  
Edmond, Oklahoma

**Jack M. Stephenson, M.D.**  
Sulphur, Oklahoma

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

**Wayne L. Warren**  
Broken Bow, Oklahoma

**Phil S. Winn**  
Branson, Missouri

## ADMINISTRATIVE OFFICERS

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

**Mike E. O'Neal (2002)**  
President Emeritus  
B.A., Harding University  
J.D., Stanford University

**Bill Goad (1979)**  
Executive Vice President  
Chief Operating Officer  
B.S., Oklahoma Christian University  
M.B.A., Abilene Christian University  
Ed.D., Oklahoma State University

**Scott LaMascus (1999)**  
Vice President for Academic Affairs  
Professor of English  
B.A., Oklahoma Christian University  
M.A., University of Oklahoma  
Ph.D., University of Oklahoma  
2003 Gaylor Chair of Distinguished Teaching

**Neil Arter (1990)**  
Vice President for Student Life  
Dean of Students  
B.S., Oklahoma Christian University  
M.B.A., Oklahoma Christian University

**John Hermes (1993)**  
Vice President for Information Technology  
B.S., Oklahoma Christian University  
M.S., Oklahoma State University

**Risa Forrester (1996)**  
Vice President for Admissions and Marketing  
B.A., Oklahoma Christian University  
M.Ed., Azusa Pacific University

**Stephen Eck (2000)**  
Vice President, General Counsel  
A.A., York College  
B.A., Oklahoma Christian University  
M.B.A., MidAmerica Nazarene University  
J.D., Oklahoma City University

**Kent Allen (2008)**  
Senior Vice President for Advancement  
Vice President for Alumni Relations  
B.S., Oklahoma Christian University

**Stephanie Baird (2010)**  
Registrar  
B.A., Flagler College  
M.Ed., Iowa State University  
Ph.D., Oklahoma State University

**Alan Phillips (2012)**  
Vice President for Texas Operations  
B.S., Oklahoma Christian University

**Terry Winn (2014)**  
Vice President, Chief Human Resources Officer  
B.A., Northwestern Oklahoma State University  
M.A., University of Oklahoma

## FACULTY

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### **Jim Baird (1992)**

Director, Honors Program  
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

### **Kenneth S. Bell (2011)**

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

### **Jeffrey Bigelow (1994)**

Chair, Department of 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

### **Jennifer Bryan (2003)**

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

### **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

### **Mickey Cowan (2000)**

Professor of Accounting  
B.S., Oklahoma State University  
M.S., Oklahoma State University

### **Donald V. Drew (2000)**

Chair, Department of Management and Marketing  
Professor of Business  
B.A., Oklahoma Christian University  
M.H.R., University of Oklahoma  
Ed.D., Oklahoma State University

### **James Dvorak (2008)**

Associate Dean for Teaching and Learning  
Acting Chair, Graduate School of Theology  
Director of the North Institute  
Professor of Bible  
B.A., Oklahoma Christian University  
M.Div., Trinity Evangelical Divinity School  
M.A., George Washington University  
Ph.D., McMaster Divinity College

### **Andy Harbert (1997)**

Assistant Professor of Computer Science  
B.S., Louisiana State University  
M.S., Texas A&M University

### **John Harrison (2000)**

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

### **Craig Johnson (2005)**

Professor of Mathematics  
B.S., Harding University  
M.S., University of Mississippi  
Ph.D., Wayne State University

### **Kenneth Johnson (2002)**

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

### **Jody Jones (2006)**

Associate Professor of Finance  
B.S., Oklahoma Wesleyan University  
M.B.A., Oklahoma City University  
Ed.D., Oklahoma State University

### **Elaine Kelly (1992)**

Chair, Department of Accounting and Finance  
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

### **Chip Kooi (2001)**

Professor of Bible  
B.A., Oklahoma Christian University  
M.A., Oklahoma Christian University  
Ph.D., Baylor University

### **Donald Leftwich (1979)**

Chair, Department of Mathematics and Computer Science  
Associate Professor of Mathematics and Computer Science  
B.S., Oklahoma Christian University  
M.A., University of Oklahoma

### **Phil V. Lewis (1999)**

Professor of Business  
B.S., Abilene Christian University  
M.A., University of Denver  
Ed.D., University of Houston

### **Steven P. Maher (2002)**

Chair, Graduate School of Engineering and Computer Science  
Associate Professor of Electrical and Computer Engineering  
B.S.E.E., University of Kansas  
M.S.E.E., University of Kansas

### **Kimberly Merritt (2007)**

Professor of Business  
B.S., Oklahoma State University  
M.B.A., Cameron University  
D.B.A., Argosy University

### **Ken Miller (1998)**

Associate Professor of Business  
B.S., David Lipscomb University  
M.B.A., Pepperdine University  
D.B.A., University of Oklahoma

### **Byron Newberry (2001)**

Dean, College of Engineering and Computer Science  
Professor of Mechanical Engineering  
B.S.M.E., Oklahoma Christian University  
M.S.M.E., University of Michigan  
Ph.D., University of Michigan

### **Robert Nix (2015)**

Assistant 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)**

Associate Professor of Computer Science  
B.S., Oklahoma Christian College  
M.S., University of Oklahoma

### **Kevin G. Plumlee (2012)**

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

### **Charles Rix (2011)**

Interim Dean, College of Biblical Studies  
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)**

Associate Professor of Business  
B.S., Oklahoma Christian University  
M.B.A., University of Oklahoma  
D.B.A., Anderson University

### **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

### **Jeffery Simmons (2008)**

Dean, College of Business Administration  
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

### **Pat Smith (2006)**

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

### **Daniel Sorensen (2011)**

Associate Professor of Accounting  
B.A., University of Nebraska  
M.B.A., Vanderbilt University  
D.B.A., Anderson University

### **Grant Testut (2011)**

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

### **David Waldo (1996)**

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

### **W. Joe Watson (1989)**

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

### **Paul W. (Wayne) Whaley (1989)**

Chair, Department of Mechanical Engineering  
Professor of Mechanical Engineering  
B.S., Oklahoma State University  
M.S., Oklahoma State University  
Ph.D., Oklahoma State University

### **Debra Wood (2015)**

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



## OC AT A GLANCE

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Oklahoma Christian University (OC) is a higher learning community that transforms lives for Christian faith, scholarship, and service. The university 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. Oklahoma Christian is affiliated with the churches of Christ, but students of all faiths are most welcome. The university enrolls approximately 500 graduate students.

## GRADUATE DEGREES

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Master of Accountancy (MAcc.)  
Master of Arts in Christian Ministry (M.A.C.M.)  
Master of Business Administration (M.B.A.)  
Master of Divinity M.Div.)  
Master of Science in Computer Science (M.S.C.S.)  
Master of Science in Engineering (M.S.E.)  
Master of Theological Studies (M.T.S.)

## 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 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)

In addition, the M.B.A. is fully accredited by the Higher Learning Commission to offer both online and onsite M.B.A. degrees.

The M.A.C.M., M.Div., and M.T.S. programs of the Graduate School of Theology are accredited by the Association of Theological Schools (ATS).  
10 Summit Park Drive  
Pittsburg, PA 15275-1110  
Phone: 412.788.6505 | Fax: 412.788.6510  
[www.ats.edu](http://www.ats.edu) | [ats@ats.edu](mailto:ats@ats.edu)

## 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. Tamie Willis, Library Director, at (405) 425-5312, 2501 E. Memorial Road, Edmond, Oklahoma 73013.

*This catalog contains official announcements of courses for the 2016-2017 academic year. Oklahoma Christian reserves the right to repeat, change, or amend the rules, regulations, and provisions contained in this catalog and may withdraw or modify the programs and courses described.*

## MISSION STATEMENT

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

## VISION STATEMENT

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OC is home. OC grows. OC is mission.

## CORE PRINCIPLES

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### • Defining Values

Primary values that guide our actions and plans.

### • OC Covenant

The kind of people we seek to be and our commitments to one another.

### • OC Graduate

What we hope to do in the lives of our students - the primary guidance for our curriculum and co-curriculum.

### • Spiritual Mission and Heritage

Affirmation of spiritual commitments and relationship to founding fellowship.

## THE OC COVENANT

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

The values and behavior of this Christian community are derived from the Bible, rather than the prevailing culture. Because we are a higher learning community dedicated to a distinctively Christian mission, we join together in a community covenant. This covenant is not a creed demanding strict belief in its veracity and inerrancy, and it is not merely an ideal to which we aspire; rather, it is a personal commitment that while we are members of this community, we will abide by the principles and ideals set forth in the covenant. The purpose of our covenant is to unite all of us at Oklahoma Christian University – students, staff, faculty, administration, and Board of Trustees – in a Christian community that is based on biblical principles and that transforms lives for Christian faith, scholarship, and service.

We recognize that the university is not the church; however, we are a Christian community that seeks to be guided by the teachings of our Lord Jesus Christ as revealed in scripture. We welcome all students, regardless of their church affiliation, who agree to abide by this covenant. Because the university was founded by members of the churches of Christ and because we seek to serve our church constituents effectively, we expect all full-time faculty and staff to be faithful, active members of the churches of Christ who fully embrace the principles of this covenant.

### OUR FOUNDATION

God interacts with this world as both Creator and Savior (*Genesis 1; Hebrews 1:1-3*).

The Bible is God's inspired word, which shows us the nature of God, the risen Son, and the Holy Spirit (*2 Timothy 3:16; 2 Peter 1:19-21*).

We seek to honor God by imitating the nature of God and His son, our Lord Jesus Christ, through the guidance of the Holy Spirit (*John 13:13-17; 1 Corinthians 11:1; 1 Peter 2:21*).

As members of this Christian higher learning community, we are guided by specific principles set forth in the Bible (*Psalms 119:105; 2 Timothy 3:16-17*).

### OUR CALL

God calls us to do our best in everything we do (*Colossians 3:17; Colossians 3:2*).

God calls us to submit our will to His (*John 15:14; James 4:7; 1 John 2:17*).

God calls us to submit to one another in love (*1 Corinthians 10:23-24; Galatians 5:13-14; Ephesians 5:21; Philippians 2:3-4*) and to show His love through the justice, mercy, and faithfulness of our lives (*Matthew 5; Matthew 23*).

God calls us to live lives of holiness (*Ephesians 1:4; 1 Thessalonians 4:7; Hebrews 12:14; 1 Peter 1:15-16*).

### OUR COMMUNITY LIFE

We strive to honor the Lord and be Christ like in all of our conduct (*Colossians 3:12-14; Titus 2:11-14*).

We strive to demonstrate love and respect for everyone, even those who have views that differ from ours, and avoid conduct or language that is demeaning to others (*Galatians 3:28; Philippians 2:3-4; James 2:1-13*).

We strive to exercise our Christian freedom responsibly within the framework of God's word, humbly submitting to others (*1 Corinthians 10:23-24; 31-33*).

We strive to use wise stewardship of our mind, body, time, abilities, and resources and make thoughtful, biblically guided choices in matters of behavior, entertainment, and interpersonal relationships (*Philippians 4:8*).

We strive to practice honesty and integrity in everything we say and do (*Colossians 3:9-10; Revelation 21:8*).

We strive to treat our bodies with the honor due the temple of the Holy Spirit – honoring God's plan that sexual relations be a part of a marriage between a man and a woman, dressing modestly, and avoiding any self-destructive practices (*1 Corinthians 6:19-20*).

For the sake of our personal influence and our life together in Christian community, we also agree to certain community standards of conduct which are not specifically set forth in the Bible, but which enable the community to operate peaceably and in harmony with these principles and with one another. These community standards are set forth in the Student Handbook.

By choosing to be a part of the Oklahoma Christian community, every member of the student body, staff, faculty, and Board of Trustees affirms his or her understanding of, respect for, and commitment to abide by the principles and standards of conduct set forth in this covenant.

## CONVERGE

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### AS A CHRISTIAN COMMUNITY OF LEARNING, WE SEEK THE FOLLOWING GRADUATE PROGRAM UNIVERSITY OUTCOMES:

#### ACTIVE FAITH

A graduate of Oklahoma Christian University is able to inform their professional behavior with an understanding of the ethical standards of a Christian worldview.

#### FOUNDATIONAL KNOWLEDGE

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

#### INFORMATION LITERACY

A graduate of Oklahoma Christian University is able to:

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

#### STRUCTURED REASONING

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

#### CRITICAL AND CREATIVE THINKING

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

#### EFFECTIVE COMMUNICATION

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

## PERSONAL, SOCIAL, AND GLOBAL STEWARDSHIP

A graduate of Oklahoma Christian University is able to:

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

## THE OC GRADUATE

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Since its founding in 1950, Oklahoma Christian University has sought to fulfill its mission to “transform lives for Christian faith, scholarship, and service.” Educating and nurturing the heart, mind, and soul, OC encourages its graduates to be like Jesus Christ, who “increased in wisdom and stature and in favor with God and man” (*Luke 2:52*). Christian faith and scholarship, exhibited through academic and spiritual excellence, is the heart of the University’s mission. While students will pursue and attain this excellence to varying degrees, we identify here the qualities desired for all OC graduates.

### THE OC GRADUATE KNOWS ...

- The liberal arts, which enrich life and prepare for the inevitable challenges, opportunities, and changes of life.
- The specialized knowledge, research methodologies, problem-solving strategies, and practical skills that enable competent living in modern society and successful competition in the global marketplace.
- How to communicate clearly and think independently, critically, and creatively.
- How to live and work harmoniously with people of diverse backgrounds and beliefs without compromising truth.
- The great themes and doctrines of the Bible, including the message of grace and the Lordship of Christ.
- The history and identity of a cappella Churches of Christ and their restoration heritage.

### THE OC GRADUATE IS ...

- Committed to intellectual and spiritual inquiry, nurturing the mind and spirit throughout life.
- Devoted to Christ, seeking to emulate Him and embody the fruit of the Spirit (*Galatians 5:22*).
- Dedicated to truth, righteousness, and excellence in every facet of life.
- A faithful steward of the blessings, resources, and talents received from God.

### THE OC GRADUATE BELIEVES ...

- The Bible is the revelation of the nature and will of God, the incarnation of the Son, and the work of the Holy Spirit, and is the authority for Christian faith and practice.
- Life has meaning only through a relationship with God, recognizing that the pursuit of knowledge in any field is ultimately a quest for understanding of God and His creation.
- Faith and learning are integral and cannot be separated with impunity.

### THE OC GRADUATE LIVES ...

- As a servant-leader in family, church, profession, and community, making a difference for good in the world, both locally and globally.
- With integrity, by acting consistently with beliefs and in a covenant relationship with God.
- In humble submission to God’s will, diligently serving him and all humanity by following the two greatest commandments: to “Love the Lord your God with all your heart, all your soul, and all your mind,” and to “Love your neighbor as yourself” (*Matthew 22:37 & 39*).

## A CHRISTIAN COMMUNITY

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A great spiritual benefit of attending OC is associating with Christian friends, faculty, and staff. Activities like those below contribute to the Christian nature of the campus. Graduate students are welcome to participate wherever possible.

## CHAPEL

The campus meets Monday through Friday at 11 am for Chapel in Hardeman Auditorium. There also are periodic specialized Chapels focusing on missions, women’s issues, spiritual seeking, and other specific topics. As a graduate student, you are not required to attend Chapel, but you are welcome to attend any of the Chapels offered on campus.

## DEVOTIONALS

Voluntary devotionals and Bible studies are conducted on campus during the week and there is a university-wide devotional on Monday and Thursday evenings. These events provide a time for encouraging one another, learning, and building relationships.

## LOCAL CONGREGATIONS

Congregations throughout the Oklahoma City area will welcome you to work and worship with them. Several nearby congregations have special teaching, fellowship, and work programs especially for OC students.

## OKLAHOMA CITY

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Oklahoma City offers jobs, entertainment, cultural events, and restaurants typical of a major city. The Oklahoma City Zoo, the Oklahoma City Philharmonic Orchestra, the Oklahoma City Thunder NBA franchise, Will Rogers World Airport, movies, shopping centers, live theater, the Civic Center Music Hall, the National Cowboy and Western Heritage Museum, Bricktown, the Bricktown Ballpark, Chesapeake Arena, the Cox Convention Center, and the state capitol all are in the metro area, which has a population of approximately one million people.

## LIBRARY

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The Tom and Ada Beam Library provides access to information to support and enhance the university’s educational programs. It is centrally located on campus in the Mabee Learning Center. The library houses more than 100,000 volumes, almost 30,000 e-books, and more than 8,000 periodical subscriptions in paper, microform, or electronic format. The collection also includes videotapes, cassette tapes, and other forms of media.

Because electronic information is vital to our country’s information infrastructure, the library offers a growing selection of electronic resources, including an online catalog, online databases, and CDs/DVDs. Because the online catalog and databases are linked from the library’s website, you have access to online research from anywhere. The library is committed to expanding its access to electronic resources as well as the more traditional services. The library faculty works with academic departments to complement specific courses. Individual reference assistance is provided at the library and also by e-mail or phone.

## OTHER

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### FACILITIES

The contemporary buildings on the Oklahoma City campus include classroom buildings, residence halls and apartments, a dining hall, student center, auditorium, performing arts theater, library, field house, and athletic fields.

### RECREATION

Facilities for student recreation include: the Eagles’ Nest, which contains basketball/volleyball courts, a 4,000-square-foot fitness center, and a 25-meter, six-lane swimming pool; the Gaylord University Center, which includes ping-pong and pool tables; and the Eagle Trail, a 3.1-mile running and walking trail around the campus.

### BOOKSTORE

The campus bookstore in the Gaylord University Center sells textbooks, academic supplies, toiletries, gifts, greeting cards, OC clothing, and other merchandise.

### MAIL SERVICE

The campus mail service is located in the Gaylord University Center. Packages can be mailed at the center.

## CAMPUS POLICE

Campus Police provides security for students, faculty, and staff on the OC campus. They can be reached at (405) 425-5500.

## CAREER SERVICES

The OC Career Services Office offers students assistance in exploring career options and in finding part-time and full-time employment. The Career Services Office also offers free career assessment software, resume writing assistance, interview preparation, on-campus interviews, career fairs, workshops, and much more. For more information, call (405) 425-5960 or visit [www.oc.edu/careerservices](http://www.oc.edu/careerservices).

## GRADUATE ADMISSION

Oklahoma Christian University recognizes that students enter graduate studies for a variety of reasons – some to pursue a degree program, others to continue their education, and still others for personal development. These and other needs can be addressed at Oklahoma Christian for those students who are adequately prepared for graduate work. The admission and retention standards assure that those admitted to graduate studies have adequate preparation, maturity, and ability to succeed in their studies.

Four types of admission are granted to the Graduate School of Business:

1. admission to the degree program
2. provisional admission
3. probationary admission
4. special (non-degree) student

Four types of admission are granted to the Graduate School of Engineering and Computer Science:

1. admission to the degree program
2. provisional admission
3. special (non-degree) student
4. admission to audit a course(s)

Four types of admission are granted to the Graduate School of Theology:

1. admission to a degree program
2. probationary admission
3. special (non-degree) student
4. admission to audit a course(s)

## FINANCIAL AID & SCHOLARSHIPS

Graduate students who complete the Free Application for Federal Student Aid (FAFSA) may receive federal funds for loans, but not for grants. The FAFSA determines eligibility for aid. The application form is available online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). For additional information, contact the Financial Services Office (405-425-5190). Work opportunities are readily available in the Oklahoma City area and a large number of OC graduate students work in area businesses. As a private university, OC does not charge out-of-state tuition.

## TUITION CHARGES & REFUND POLICY, 2016-2017

| TUITION  | DOMESTIC   | INTERNATIONAL |
|--|------------|---------------|
| Graduate School of Business  | \$540/hour | \$570/hour    |
| Graduate School of Engineering and Computer Science                              | \$550/hour | \$650/hour    |
| Graduate School of Theology  | \$460/hour | \$460/hour    |
| Tuition discounts and scholarships are available for Graduate Theology students. |            |               |
| Audit fees   | \$50/hour  |               |

### ADDING/DROPPING A CLASS

To add or drop a class, a student should see his or her Program Director or

Chair, who may add the class electronically or may sign a change in enrollment form.

## WITHDRAW/DROP REFUND POLICY

OC Graduate Programs use a variety of class length formats, each with its own withdraw/drop refund policy. Tuition 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:

- Week 1 100% refund will be made.
- Week 2 75% refund will be made.
- Week 3 50% refund will be made.
- After Week 3 no refunds will be made.

For all 7- and 8-week classes, tuition refunds are made to students who officially withdraw by the second week of the class. Refunds are given as follows:

- Week 1 100% refund will be made.
- Week 2 50% refund will be made.
- Week 3 no refunds will be made.

For all other classes (6 weeks or less), tuition refunds are made to students who officially withdraw by the second day of the class. Refunds are given as follows:

- Day 1 100% refund will be made.
- Day 2 50% refund will be made.
- Day 3 No refunds will be made.

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

Any student dismissed for unsatisfactory conduct or failure to pay charges as agreed is not eligible for refunds.

In accordance with federal regulations, Oklahoma Christian is required to calculate the "return of Title IV funds" formula for students who are attending on federal (Title IV) financial aid. For this reason, withdrawing from classes may reduce a student's financial aid for the current semester. In accordance with the Satisfactory Academic Progress policy, withdrawing may jeopardize future Title IV funding.

## GRADING SYSTEM

Grades are recorded for graduate courses in recognition of certain levels of achievement and are interpreted as follows:

- A Excellent level of achievement (4 grade points per semester hour)
  - B Average level of achievement (3 grade points per semester hour)
  - C Below average level of achievement (2 grade points per semester hour)
  - F Failure (0 grade points per semester hour)
  - I Incomplete (0 grade points per semester hour)
  - W See drop schedule above for Withdrawal dates (0 grade points; will not count against grade point average)
- \* Note: Graduate Programs do not issue "D" grades

### INCOMPLETES

A grade of incomplete (I) will be assigned when a student has not met the requirements of the course due to illness, an emergency, or some cause deemed reasonable by the instructor. Negligence of class requirements is not considered an acceptable reason for an incomplete to be granted.

An incomplete grade is removed by completion of the course requirements within the time allowed by the instructor, not to exceed six weeks. The professor has an option to grant an extension if warranted based on a request by the student within the first six weeks. If a grade has not been submitted by the professor at the end of 12 weeks, the Registrar's Office will convert the I to an F.

## REPEATING COURSES

A student should consult with his or her academic advisor before repeating a course in which he or she has a low or failing grade. The purpose of this consultation is to examine the cause(s) and to discern specific steps necessary to succeed in the repeat. When a course is repeated, the higher grade will be used in the computation of the GPA. This replacement course/grade must be taken at OC.

## ACADEMIC POLICIES

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### ACADEMIC LOAD

Students generally may not enroll in more than 12 graduate hours per regular term. A combined load of graduate and undergraduate credit shall not exceed 15 hours. A full-time student is defined as one who is enrolled in 9 or more graduate hours in a regular term.

### RETENTION

Graduate students must maintain a cumulative GPA of 3.0 to remain in good standing academically. Students with a GPA below 3.0 upon completing all degree requirements will not be allowed to graduate until their GPA is at or above 3.0.

The first semester a student's term graduate GPA falls below a 3.0, he or she will be placed on probation.

The second successive semester a student's term graduate GPA is below a 3.0, he or she will be suspended from the graduate program unless the student has a 3.0 or higher cumulative GPA for that semester, in which case he or she will be continued on probation.

The third successive semester a student's term graduate GPA falls below a 3.0, he or she will be suspended from the graduate program regardless of his or her cumulative GPA for that semester.

### TIME LIMIT FOR DEGREE

All work credited toward either the M.Acc., M.A.C.M., M.B.A., M.S.C.S., M.S.E., or M.T.S. degrees must be completed within seven years from the date of entry (first course). All work credited toward the M.Div. must be completed within 10 years from the date of entry (first course). This applies to work being transferred as well as work completed at Oklahoma Christian.

### LEAVE OF ABSENCE

Students who wish to continue pursuit of a degree but not take courses during a given semester (fall or spring) may request a leave of absence for a maximum of two semesters, consecutive or non-consecutive. A request for a leave of absence must be made in writing to the appropriate chair before the semester in which the leave is taken. 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. Time spent in a leave of absence does not count toward the time limit for the degree.

### ENROLLMENT OF UNDERGRADUATES

An undergraduate student who is within 12 hours of graduation and who has at least a cumulative 3.0 GPA may request permission to enroll in one graduate course. Graduate credit taken under this provision may not count to meet undergraduate degree requirements. Note: Undergraduate engineering students who are within the last year of their baccalaureate degree, and who have not been admitted to a graduate program, and who have at least a cumulative 3.0 GPA, may request their Department Chair's permission to enroll in graduate engineering courses.

### INSTITUTIONAL RIGHTS AND RESPONSIBILITIES

The policies and regulations set forth in this graduate catalog represent the degree programs at the time of publication. The course offerings and degree policies are under constant review. Consequently, Oklahoma Christian University 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 listed herein.

## GRADUATION DEADLINES

All graduate students must apply for graduation in the term in which they intend to complete their degrees. They should search for the Graduation Application under My Services in myOC. Deadlines for graduation applications are as follows:

| Graduation Term          | Application Deadline       |
|--------------------------|----------------------------|
| Fall (December 16, 2016) | Tuesday, November 15, 2016 |
| Spring (April 28, 2017)  | Wednesday, March 15, 2016  |
| Summer (August 18, 2017) | Saturday, July 15, 2016    |

Students who fail to apply for graduation by the deadline will not be permitted to participate in commencement.

## POLICY ON ACADEMIC HONESTY

### CHEATING

Cheating on an examination or an assignment roll sheet or any other course related work or activities undermines the ethics of the university and the specific Christian purposes of OC. Accordingly, those who cheat on examinations, or any other course related work or activities or assignments will face serious consequences, as outlined in the following policy.

### PLAGIARISM

One particular form of cheating is plagiarism. Plagiarism is the transmitting of another's ideas, words, or materials as one's own and/or the failure to 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 Vice President for Academic Affairs, 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 Vice President for Academic Affairs, 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.

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.

## GRADE APPEALS

Any student may appeal a final grade received in a course. To assure due process and protect the rights of both you 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 to appeal. The professor has two weeks to respond in writing to the student's appeal.

### **STEP 2 – APPEAL TO THE CHAIR**

If interaction with the professor does not resolve the issue, the student has two weeks from that response to appeal to the chair of the professor's school or department. Otherwise, the student loses the right of appeal and the issue is considered closed. If the professor is the chair, the student will take the appeal to the dean.

The appeal must include a written description of the circumstances as understood by the student. Two copies of this written appeal must be given to the chair in a private interview. The chair will give one copy of the student's appeal to the professor and request any supporting documentation from the professor. The chair will discuss the complaint with the professor and, where appropriate, with other students.

The chair will make a decision as soon as is reasonably practicable, but in no event longer than four weeks from the date of receipt of the appeal, and will communicate that decision in writing to the student.

After receiving the appeal, the chair has two options: the chair may make the decision and explain it to the student and the professor within two weeks or, if the chair considers the matter sufficiently serious or complex, the chair may take the matter to the dean of the professor's college for further review and response.

### **STEP 3 – APPEAL TO THE DEAN**

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

Upon receiving notice of the appeal, the dean will request from the chair a copy of the original appeal, any documents submitted by the professor, and the chair's rationale for the decision. The dean will discuss the matter with all those involved.

After review, 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 the professor are not satisfied that the dean's decision is fair and just, either may initiate an appeal to the Academic Appeals Committee by notifying the Vice President for Academic Affairs in writing of the appeal within one week of the dean's decision. The dean will present a copy of the original appeal and any documents submitted by the professor or gathered in evidence prior to the dean's decision.

The Academic Appeals Committee may 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 to all involved parties by the Vice President for Academic Affairs.

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.

## **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 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 Mrs. 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.

## **DROP AND ADD PROCEDURES**

### **DROPPING A CLASS**

To drop a class, you must contact the director of your academic program. Student-athletes must also obtain the signature of either the Assistant AD for Compliance or the Director of Academic Excellence in Athletics.

### **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" weeks 1-4  
Can drop with a grade of "W" weeks 5-12  
Cannot drop after week 12

#### **SEVEN OR EIGHT WEEK COURSE**

Cannot add after week 1  
Can drop without a grade of "W" week 1  
Can drop with a grade of "W" weeks 2-6  
Cannot drop weeks 7-8

#### **ADDING A CLASS**

To add a class, you must contact the director of your academic program.

#### **Laptop Computer**

Students should anticipate frequent use of computers in the classroom with an emphasis on various learning technologies. It is strongly recommended that students have on-campus access to a computer, preferably portable. Computer access and Internet availability is required.

## **INTERNATIONAL STUDENTS**

OC welcomes students from all over the world to make OC their educational home. The International Programs Office advises and assists international students regarding admission, campus orientation, academic advisement, immigration, and integrating into the OC campus community.

International students are welcome to Oklahoma Christian University's graduate programs. To be accepted, you must complete the following steps:

- Submit a completed application for admission to the program of your choice (Graduate School of Business, Graduate School of Engineering and Computer Science, or Graduate School of Theology)
- Submit a \$25 non-refundable admission fee
- Complete and return the financial form that OC sends you upon receiving your application

- Return with the financial form and financial documentation required by the U.S. Immigration and Naturalization Service
- Submit an official copy of all undergraduate transcripts with a certified translation in English (contact the Office of International Programs to learn how to obtain a WES Course by Course Evaluation which must be submitted with the transcripts)
- Submit official Graduate Record Examination (GRE) scores (for M.Acc., M.B.A., M.S.C.S., and M.S.E. only)
- See individual program admissions requirements for additional requirements

OC provides an array 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 and/or People to People International, two campus associations promoting cross-cultural friendships and awareness.

Graduate applicants whose primary language is not English must demonstrate competency in English in one of the following ways:

1. Standardized Testing
  - TOEFL
    - 550 PBT TOEFL or higher
    - 79 IBT TOEFL or higher
  - IELTS
    - 6.5 or higher

- TOEIC
  - 750 or higher
- 2. Language and Culture Institute (LCI at Oklahoma Christian)
  - TOEFL
    - 500 PBT TOEFL or higher with successful completion of a minimum of 14 weeks in LCI
    - 61 IBT TOEFL or higher with successful completion of a minimum of 14 weeks in LCI
  - IELTS
    - 6.0 or higher with successful completion of a minimum of 14 weeks in LCI
  - TOEIC
    - 600 or higher with successful completion of a minimum of 14 weeks in LCI

For more details about demonstrating English competency requirements for admission into OC's graduate programs, students should consult with OC's International Programs Office (405-425-5475).

#### **LANGUAGE AND CULTURE INSTITUTE**

The Language and Culture Institute (LCI) provides intensive English courses for non-native English speakers who wish to improve language skills in order to enter the university. LCI also provides language and culture classes for exchange students and international professionals. For more information contact Office of International Programs 405-425-5482.

# COLLEGE OF BIBLICAL STUDIES

## GRADUATE SCHOOL OF

# THEOLOGY

### MISSION STATEMENT

The Graduate School of Theology (G.S.T.) in the College of Biblical Studies seeks to fulfill the mission of Oklahoma Christian University to transform lives for Christian faith, scholarship, and service. The G.S.T. provides rigorous training for the intellectual and spiritual development of persons seeking a life of ministry within the church, academy, and world.

### AREAS OF STUDY

Bible (BIBL)  
Church History (CHST)  
Family Ministry (FMIN)  
General Ministry (GMIN)  
Greek (GREK)  
Hebrew (HBRW)  
Theology (THEO)  
Youth Ministry (YTMN)

### DEGREES OFFERED

M.A.C.M. Degree in Ministry w/ an Emphasis in English Language  
M.A.C.M. Degree in Ministry w/ an Emphasis in Original Language  
M.Div. Degree, Non-Thesis  
M.Div. Degree, Thesis  
M.T.S. Degree w/ an Emphasis in Scripture, Non-Thesis  
M.T.S. Degree w/ an Emphasis in Scripture, Thesis  
M.T.S. Degree w/ an Emphasis in Theology, Non-Thesis  
M.T.S. Degree with an Emphasis in Theology, Thesis

### ADMINISTRATION

Charles M. Rix, Ph.D.  
Interim Dean, College of Biblical Studies  
Associate Professor of Old Testament  
Jim Dvorak, Ph.D.  
Acting Chair, Graduate School of Theology  
Associate Dean for Teaching and Learning  
Director of the North Institute  
Professor of Bible  
Josh Bailey, B.S.  
Director, Graduate School of Theology

### FACULTY

Charles M. Rix, Ph.D.  
Interim Dean, College of Biblical Studies  
Associate Professor of Old Testament  
Jim Dvorak, Ph.D.  
Acting Chair, Graduate School of Theology  
Associate Dean for Teaching and Learning

Director of the North Institute  
Professor of Bible  
Jim Baird, D.Phil.  
Professor of Bible and Philosophy  
Dudley Chancey, Ph.D.  
Professor of Youth Ministry  
John Harrison, Ph.D.  
Professor of New Testament and Ministry  
Chip Kooi, Ph.D.  
Professor of Bible  
Chris Rosser, M.Div.  
Associate Professor of Library Science  
Theological Librarian  
Grant Testut, Ph.D.  
Assistant Professor of Bible

### SUMMARY OF DEGREE PROGRAMS

The Graduate School of Theology offers three graduate degree programs.

The Master of Arts in Christian Ministry (M.A.C.M.) degree is a good choice for the student interested in more specially focused ministries such as youth ministry or family ministry. The degree requires the completion of 48 credit hours. Students can take courses in general ministry or focus more specifically in family ministry or youth ministry. The capstone event in the M.A.C.M. degree program is a comprehensive examination in which the student demonstrates his or her ability to integrate graduate level biblical studies and ministry skills.

The Master of Divinity (M.Div.) is the foundational degree in theological education. It provides the student with broad training in biblical studies, history and theology, spiritual formation, and practical ministry skills that equip the student to serve a church well as a pulpit minister or as a leader in a multi-staff congregation. The M.Div. degree requires the completion of 73 credit hours. Through elective courses, students focus in areas of ministry, textual study, or theology, complementing core learning in each of these areas. The capstone event in the M.Div. degree program is a comprehensive examination in which the student demonstrates his or her ability to integrate graduate level biblical studies, theology, and ministry skills. For those in the thesis track, a 60-90 page thesis will also be submitted and will be developed under the guidance of a faculty advisor.

The Master of Theological Studies (M.T.S.) degree is designed either for the student who wants to pursue additional graduate work upon completion of the degree or for the student who simply desires to improve his/her understanding of the Bible or theology. The degree requires the completion of 48 credit hours. Students can focus in one of two areas of

study: Scripture or Theology. In addition, students should specify a thesis or non-thesis track after consultation with their advisor. Each M.T.S. student compiles a portfolio consisting of specified papers with faculty feedback and student reflections. The portfolio serves to demonstrate the formation of the student in the areas of exegesis of Christian texts and the ability to think theologically. For those in the thesis track, a 60-90 page thesis will also be submitted and will be developed under the guidance of a faculty advisor.

#### **Thesis Option:**

M.Div. and M.T.S. students interested in writing a thesis must have a cumulative GPA of 3.5 at the time they intend to begin the thesis writing process. Interested students must write a brief (1-2 page) proposal that obtains the approval of a faculty member willing to serve as the advisor for the thesis. The proposal must be submitted to the college dean in the semester before the student hopes to start the process and is subject to the approval of the chair. Having a cumulative GPA of 3.5 does not guarantee that a student interested in writing a thesis will be provided that opportunity. An M.T.S. student who begins the process may substitute thesis credits for up to two electives for a total of 48 credit hours in the program. M.Div. students in the thesis track will complete six hours of thesis writing, in addition to the non-thesis M.Div. degree for a total of 79 credit hours. The thesis does not substitute for the comprehensive exam in the M.Div. degree program.

## **REQUIREMENTS FOR DEGREE-SEEKING APPLICANTS**

**Pre-admission requirements are as follows:**

Completed application with a \$25 non-refundable application fee

- Three letters of reference
  1. One letter from a college professor under whom the applicant has studied (if the applicant has done graduate work, this reference should be from a graduate professor)
  2. One letter from a person in a ministry position, e.g., preacher or elder
  3. One letter from any non-familial source
- Bachelor's degree from a regionally-accredited U.S. institution
- All undergraduate and graduate transcripts
- A 3.0 cumulative undergraduate grade point average. Applicants with an undergraduate GPA of less than 3.0 may be admitted on probation with the following provision:
  1. The applicant may be required to complete a writing assessment through OC's Writing Center or by taking the GRE Writing Assessment and having the results sent to OC.
  2. If the above is required, the applicant must meet with the director of GST to discuss the results of the writing assessment and must complete any remedial work (if needed) as assigned by the chair. {The GRE Writing Assessment and remedial work (if assigned) must be completed before the student may enroll in any graduate coursework.}
  3. Once accepted, the applicant must complete one semester of graduate coursework with a cumulative graduate GPA of 3.0 or higher. Successful completion of these requirements will lift the student's probationary status and allow him or her to continue in Graduate School of Theology programs.

**Other requirements include the following:**

- Psychological testing and post-test conference (for advisory purposes only; must be completed within the student's first semester or before the completion of 12 hours).
- Ten hours of transcript credit in biblical texts. Applicants with fewer credit hours in Bible must take and pass BIBL 5023-Graduate Survey of the Bible before taking Introduction to the Old Testament and Its Theologies or Introduction to the New Testament and Its Theologies.

## **PROBATIONARY ADMISSION**

Probationary admission may be granted to applicants upon completion of all pre-admission requirements. Certain courses cannot be taken until

all admission requirements are met. All admission requirements must be completed within the student's first semester in the program. If all admission requirements are not completed within this time period, the student's participation in the degree program may be terminated.

Students applying from unaccredited domestic schools will be considered on a case-by-case basis. An exception may be granted on request by the program chair and by approval of the college dean. If enrollment requirements are otherwise met, the student will be granted provisional entry for the first semester and must maintain a GPA of 3.0 or higher.

#### **Admission Requirements for Special (Non-Degree-Seeking) Students**

Individuals who do not wish to enter a degree program or who are not eligible for regular admission but whose educational attainment or experience qualifies them to enroll in certain courses may be admitted as special students for up to 15 credit hours. Permission from the dean of the College of Biblical Studies must be obtained to enroll in coursework beyond this limit. Special students must meet the same pre-admission requirements as degree-seeking students (except for undergraduate cumulative GPA) and must meet all prerequisites for the courses in which they enroll. Work completed in the special student status does not automatically apply toward degree requirements in the event that the non-degree status is subsequently changed to degree-seeking classification.

**Admission requirements for special students are:**

- Completed application with \$25 non-refundable application fee.
- Three letters of reference (same guidelines and sources as for degree-seeking students).
- Bachelor's degree from a regionally-accredited U.S. institution
- All undergraduate and graduate transcripts
- International students must meet the English competency requirement for all graduate programs.

Special students will be evaluated each semester before being allowed to continue studies.

#### **Admission for Audit Students**

An audit student attends classes but should not expect to have work or assignments graded. Audit students must complete an online application and seek permission from instructors before enrolling. No other admission requirements apply to audit students. Audit students will be evaluated each semester before being allowed to continue studies.

## **ACADEMIC POLICIES FOR GRADUATE SCHOOL OF THEOLOGY**

#### **Graduation**

Candidates for degrees must make written application for graduation in the Registrar's Office during the first two weeks of the semester in which they plan to graduate. M.A.C.M. and M.Div. students must also meet with the GST program director during this same time to schedule the comprehensive examination. M.T.S. students must schedule a review of their portfolio.

#### **Distance Learning Courses**

Graduate credit through distance learning is available from Oklahoma Christian University for some courses in the curriculum. Students should be aware that while some courses are offered in a distance learning format, the majority of courses utilize a traditional, on campus format.

#### **Transfer Credit**

There is no automatic transfer of credit toward degree requirements. Work accepted for credit must be approved by the college dean. No work with a grade of less than "B" will be considered to meet program requirements. Normally, no more than 21 transfer hours may be used to fulfill degree requirements for the M.A.C.M. and M.T.S. degrees and no more than 42 transfer hours may be applied toward the M.Div degree.

## M.A.C.M. DEGREE WITH AN EMPHASIS IN ENGLISH LANGUAGE

### 48 HOURS OF STUDY\*

An OC graduate with an M.A.C.M. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to articulate traditional theological categories and historical developments of Christian thought more broadly and the Stone-Campbell movement more particularly.
3. Demonstrate sensitivity to the practice of Christian faith in contemporary and diverse contexts.
4. Demonstrate the ability to think critically and sensitively about ministry situations and respond in ways grounded ethically and theologically.
5. Demonstrate maturity in their chosen aspect of ministry.

\*Students who need leveling in addition to Greek and Hebrew will be required to take 51 hours.

#### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. These courses must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies and BIBL-5043 Introduction to the New Testament and its Theologies. This course does not count toward hours required for the M.A.C.M. degree

#### 3 HOURS FOUNDATION REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies

#### 9 HOURS BIBLICAL STUDIES REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies  
 BIBL-5043 Introduction to the New Testament and its Theologies  
 BIBL-5623 Advanced Biblical Exegesis

#### 3 HOURS OLD TESTAMENT ELECTIVE CHOSEN FROM

BIBL-5313 Wisdom Literature  
 BIBL-5363\* Seminar in Selected Old Testament Passages

#### 3 HOURS NEW TESTAMENT ELECTIVE CHOSEN FROM

BIBL-5223 Seminar in the Gospels  
 BIBL-5233 Acts and Ministry Formation  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5253\* Seminar in Selected New Testament Passages

#### 3 HOURS BIBLICAL STUDIES ELECTIVE CHOSEN FROM

BIBL-5073 Politics and Power in Israel's First History  
 BIBL-5223 Seminar in the Gospels  
 BIBL-5233 Acts and Ministry Formation  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5253\* Seminar in Selected New Testament Passages  
 BIBL-5313 Wisdom Literature  
 BIBL-5363\* Seminar in Selected Old Testament Passages

#### 3 HOURS HISTORY-THEOLOGY REQUIRED

CHST-5023 History of the Restoration Movement

#### 3 HOURS HISTORY-THEOLOGY ELECTIVE CHOSEN FROM

CHST-5003 Historical Theology I  
 CHST-5013 Historical Theology II  
 CHST-5033\* Seminar in Selected Church History Topics  
 THEO-5003 Contemporary Theology  
 THEO-5013 Ethics  
 THEO-5023 Systematic Theology  
 THEO-5033\* Seminar in Selected Theology Topics  
 THEO-5113 Theology of Worship

THEO-5143

Non-Christian Religions

THEO-5153

Philosophical Theology

#### 12 HOURS MINISTRY STUDIES REQUIRED

GMIN-5013 Christian Spiritual Formation  
 GMIN-5533 Preaching and Communicating Scripture  
 GMIN-5743 Counseling for Ministers  
 GMIN-5853 Theology For Ministry

#### 6 HOURS MINISTRY STUDIES ELECTIVES CHOSEN FROM

FMIN-5033\* Seminar: Selected Topics in Family Ministry  
 FMIN-5103 Family Life Ministry  
 FMIN-5313 Systems Theory in Ministry  
 FMIN-5503 Marriage and Family Dynamics  
 FMIN-5543 Marriage and Family Therapy  
 GMIN-5003 Ministry in Cities and Small Towns  
 GMIN-5023 Congregational Leadership  
 GMIN-5043 Adult Learning  
 GMIN-5063 Managing Conflict, Transition, and Change  
 GMIN-5113 Theology of Worship  
 GMIN-5143 Non Christian Religions  
 GMIN-5153 Philosophical Theology  
 GMIN-5233 Acts and Ministry Formation  
 GMIN-5513 Congregational Development and Administration  
 GMIN-5843\* Special Topics in Ministry  
 YTMN-5033\* Seminar: Selected Topics in Youth Ministry  
 YTMN-5103 Adolescent Culture  
 YTMN-5163 Adolescent Physical and Spiritual Development  
 YTMN-5203 Teaching Adolescents

#### 3 HOURS FIELD EDUCATION REQUIRED COURSE

GMIN-5913 Field Education

#### Comprehensive Examination

COMP-5900 Master of Arts in Christian Ministry Comprehensive Examination

The capstone event for the Master of Arts in Christian Ministry candidate is a comprehensive examination in which the student demonstrates the ability to integrate graduate level Biblical studies and ministry skills. The comprehensive exam includes a written response to a case study, an oral presentation related to the case study, and an oral defense before an examining committee.

\*Note: The selected topics will vary. Consequently, this course may be repeated as the content varies.

## M.A.C.M. DEGREE WITH AN EMPHASIS IN ORIGINAL LANGUAGE

### 48 HOURS OF STUDY\*

An OC graduate with an M.A.C.M. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to articulate traditional theological categories and historical developments of Christian thought more broadly and the Stone-Campbell movement more particularly.
3. Demonstrate sensitivity to the practice of Christian faith in contemporary and diverse contexts.
4. Demonstrate the ability to think critically and sensitively about ministry situations and respond in ways grounded ethically and theologically.
5. Demonstrate maturity in their chosen aspect of ministry.

\*Students who can demonstrate competency by examination in Greek or Hebrew will take only 42 hours. Students who need leveling in addition to Greek and Hebrew will be required to take 51 hours.

#### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. These courses must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies and BIBL-5043 Introduction to the New Testament and its Theologies. This course does not count toward hours required for the M.A.C.M. degree.

#### 3 HOURS FOUNDATION REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies

#### 9 HOURS BIBLICAL STUDIES REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies  
 BIBL-5043 Introduction to the New Testament and its Theologies  
 BIBL-5623 Advanced Biblical Exegesis

#### 6 HOURS BIBLICAL LANGUAGES CHOSEN FROM

GREK-5103 Elementary Greek I  
 GREK-5113 Elementary Greek II  
 HBRW-5113 Elementary Hebrew I  
 HBRW-5123 Elementary Hebrew II

#### 3 HOURS BIBLICAL STUDIES ELECTIVE CHOSEN FROM

BIBL-5073 Politics and Power in Israel's First History  
 BIBL-5223 Seminar in the Gospels  
 BIBL-5233 Acts and Ministry Formation  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5313 Wisdom Literature  
 BIBL-5253\* Seminar in Selected New Testament Passages  
 BIBL-5363\* Seminar in Selected Old Testament Passages  
 GREK-5203 Selected Greek New Testament Readings  
 GREK-5213 Selected Greek Readings/Gospels  
 HBRW-5213 Intermediate Hebrew I

#### 3 HOURS HISTORY-THEOLOGY REQUIRED

CHST-5023 History of the Restoration Movement  
 CHST-5033\* Seminar and Church History Topics

#### 3 HOURS HISTORY-THEOLOGY ELECTIVE CHOSEN FROM

CHST-5003 Historical Theology I  
 CHST-5013 Historical Theology II  
 THEO-5003 Contemporary Theology  
 THEO-5013 Ethics  
 THEO-5023 Systematic Theology  
 THEO-5033\* Seminar in Selected Theology Topics  
 THEO-5113 Theology of Worship

THEO-5143

Non-Christian Religion

THEO-5153

Philosophical Theology

#### 12 HOURS MINISTRY STUDIES REQUIRED

GMIN-5013 Christian Spiritual Formation  
 GMIN-5533 Preaching and Communicating Scripture  
 GMIN-5743 Counseling for Ministers  
 GMIN-5853 Theology For Ministry

#### 6 HOURS MINISTRY STUDIES ELECTIVES

FMIN-5033\* Seminar: Selected Topics in Family Ministry  
 FMIN-5103 Family Life Ministry  
 FMIN-5313 Systems Theory in Ministry  
 FMIN-5503 Marriage and Family Dynamics  
 FMIN-5543 Marriage and Family Therapy  
 GMIN-5003 Ministry in Cities and Small Towns  
 GMIN-5023 Congregational Leadership  
 GMIN-5043 Adult Learning  
 GMIN-5063 Managing Conflict, Transition, and Change  
 GMIN-5113 Theology of Worship  
 GMIN-5143 Non-Christian Religions  
 GMIN-5153 Philosophical Theology  
 GMIN-5233 Acts and Ministry Formation  
 GMIN-5513 Congregational Development and Administration  
 GMIN-5843\* Special Topics in Ministry  
 YTMN-5033\* Seminar: Selected Topics in Youth Ministry  
 YTMN-5103 Adolescent Culture  
 YTMN-5163 Adolescent Physical and Spiritual Development  
 YTMN-5203 Teaching Adolescents

#### 3 HOURS FIELD EDUCATION REQUIRED COURSE

GMIN-5913 Field Education

#### Comprehensive Examination

COMP-5900 Master of Arts in Christian Ministry Comprehensive Examination

The capstone event for the Master of Arts in Christian Ministry candidate is a comprehensive examination in which the student demonstrates the ability to integrate graduate level Biblical studies and ministry skills. The comprehensive exam includes a written response to a case study, an oral presentation related to the case study, and an oral defense before an examining committee.

\*Note: The selected topics will vary. Consequently, this course may be repeated as the content varies.

## M.DIV. DEGREE, NON-THESIS 73 HOURS OF STUDY\*

An OC graduate with an M.Div. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to articulate traditional theological categories and historical developments of Christian thought more broadly and the Stone-Campbell movement more particularly.
3. Demonstrate sensitivity to the practice of Christian faith in contemporary and diverse contexts.
4. Demonstrate the ability to think critically and sensitively about ministry situations and respond in ways grounded ethically and theologically.
5. Demonstrate maturity in their growth as ministers.
6. Demonstrate the capacity to lead and nurture as a ministry professional.

\*Students who can demonstrate competency by examination in Greek and Hebrew will take only 61 hours. Students who need leveling in addition to Greek and Hebrew will be required to take 76 hours.

### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. This course must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies or BIBL-5043 Introduction to the New Testament and its Theologies This course does not count toward hours required for the M.Div. degree.

### 15 HOURS FOUNDATION REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies

GREK-5103\* Elementary Greek I

GREK-5113\* Elementary Greek II

HBRW-5113\* Elementary Hebrew I

HBRW-5123\* Elementary Hebrew II

\*These courses may be waived upon achieving a passing grade on a Greek and/or Hebrew competency exam.

### 9 HOURS BIBLICAL STUDIES REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies

BIBL-5043 Introduction to the New Testament and its Theologies

BIBL-5623 Advanced Biblical Exegesis

### 12 HOURS HISTORY-THEOLOGY REQUIRED

CHST-5003 Historical Theology I

CHST-5013 Historical Theology II

THEO-5023 Systematic Theology

THEO-5853 Theology for Ministry

### 12 HOURS MINISTRY STUDIES REQUIRED

GMIN-5013 Spiritual Formation

GMIN-5063 Managing Conflict, Transition, and Change

GMIN-5523 Biblical and Contemporary Evangelism

GMIN-5533 Preaching and Communicating Scripture

### 3 HOURS FIELD EDUCATION REQUIRED

GMIN-5913 Field Education

### 1 HOUR COMPREHENSIVE EXAM

COMP-5901 M.Div. Comprehensive Examination

The capstone event for the Master of Divinity candidate is a comprehensive examination in which the student demonstrates the ability to integrate graduate level Biblical studies and ministry skills. The comprehensive exam includes a written response to a case study, an oral presentation related to the case study, and an oral defense before an examining committee.

### 21 HOURS ELECTIVES CHOSEN FROM

BIBL-5073

Politics and Power in Israel's First History

BIBL-5223

Seminar in the Gospels

BIBL-5233

Acts and Ministry Formation

BIBL-5243

Seminar in the Pauline Epistles

BIBL-5253\*

Seminar in Selected New Testament Passages

BIBL-5313

Wisdom Literature

BIBL-5363\*

Seminar in Selected Old Testament Passages

CHST-5023

History of the Restoration Movement

CHST-5033\*

Seminar in Selected Church History Topics

FMIN-5033\*

Selected Topics in Family Ministry

FMIN-5103

Family Life Ministry

FMIN-5303

Applications of Family Life Ministry

FMIN-5313

Systems Theory in Ministry

FMIN-5503

Marriage and Family Dynamics

FMIN-5543

Marriage and Family Therapy

GMIN-5003

Ministry in Cities and Small Towns

GMIN-5023

Congregational Leadership

GMIN-5043

Adult Learning

GMIN-5113

Theology of Worship

GMIN-5143

Non-Christian Religions

GMIN-5153

Philosophical Theology

GMIN-5233

Acts and Ministry Formation

GMIN-5513

Congregational Development and Administration

GMIN-5743

Counseling for Ministers

GMIN-5843\*

Special Topics in Ministry

GREK-5123

Intermediate Greek

GREK-5203

Selected Greek New Testament Readings

GREK-5213

Selected Greek Readings/Gospels

HBRW-5213

Intermediate Hebrew I

THEO-5003

Contemporary Theology

THEO-5013

Ethics

THEO-5033\*

Selected Theology Topics

THEO-5113

Theology of Worship

THEO-5143

Non-Christian Religions

THEO-5153

Philosophical Theology

YTMN-5033\*

Selected Topics in Youth Ministry

YTMN-5103

Adolescent Culture

YTMN-5163

Adolescent Physical and Spiritual Development

YTMN-5203

Teaching Adolescents

\*Note: The selected topics will vary. Consequently, this course may be repeated as the content varies.

# M.DIV. DEGREE, THESIS 79 HOURS OF STUDY\*

An OC graduate with an M.Div. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to articulate traditional theological categories and historical developments of Christian thought more broadly and the Stone-Campbell movement more particularly.
3. Demonstrate sensitivity to the practice of Christian faith in contemporary and diverse contexts.
4. Demonstrate the ability to think critically and sensitively about ministry situations and respond in ways grounded ethically and theologically.
5. Demonstrate maturity in their growth as ministers.
6. Demonstrate the capacity to lead and nurture as a ministry professional.

\*Students who can demonstrate competency by examination in Greek and Hebrew will take only 67 hours. Students who need leveling in addition to Greek and Hebrew will be required to take 82 hours.

### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. This course must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies or BIBL-5043 Introduction to the New Testament and its Theologies. This course does not count toward hours required for the M.Div. degree.

### 15 HOURS FOUNDATION REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies  
 GREK-5103\* Elementary Greek I  
 GREK-5113\* Elementary Greek II  
 HBRW-5113\* Elementary Hebrew I  
 HBRW-5123\* Elementary Hebrew II

\*These courses may be waived upon achieving a passing grade on a Greek and/or Hebrew competency exam.

### 9 HOURS BIBLICAL STUDIES REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies  
 BIBL-5043 Introduction to the New Testament and its Theologies  
 BIBL-5623 Advanced Biblical Exegesis

### 12 HOURS HISTORY-THEOLOGY REQUIRED

CHST-5003 \*Historical Theology I  
 CHST-5013 Historical Theology II  
 THEO-5023 Systematic Theology  
 THEO-5853 Theology for Ministry

### 12 HOURS MINISTRY STUDIES REQUIRED

GMIN-5013 Spiritual Formation  
 GMIN-5063 Managing Conflict, Transition, and Change  
 GMIN-5523 Biblical and Contemporary Evangelism  
 GMIN-5533 Preaching and Communicating Scripture

### 3 HOURS FIELD EDUCATION REQUIRED

GMIN-5913 Field Education

### 6 HOURS OF THESIS

BIBL-5713 Scripture Thesis I  
 BIBL-5723 Scripture Thesis II  
 THEO-5713 Theology Thesis I  
 THEO-5723 Theology Thesis II

### 1 HOUR COMPREHENSIVE EXAM

COMP-5901 M.Div. Comprehensive Examination  
 The capstone event for the Master of Divinity candidate is a comprehensive examination in which the student demonstrates the ability to integrate graduate level Biblical studies and ministry skills. The comprehensive exam

includes a written response to a case study, an oral presentation related to the case study, and an oral defense before an examining committee.

### 21 HOURS ELECTIVES CHOSEN FROM

BIBL-5073 Politics and Power in Israel's First History  
 BIBL-5223 Seminar in the Gospels  
 BIBL-5233 Acts and Ministry Formation  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5253\* Seminar in Selected New Testament Passages  
 BIBL-5313 Wisdom Literature  
 BIBL-5363\* Seminar in Selected Old Testament Passages  
 CHST-5023 History of the Restoration Movement  
 CHST-5033\* Seminar and Church History Topics  
 FMIN-5033\* Selected Topics in Family Ministry  
 FMIN-5103 Family Life Ministry  
 FMIN-5303 Applications of Family Life Ministry  
 FMIN-5313 Systems Theory in Ministry  
 FMIN-5503 Marriage and Family Dynamics  
 FMIN-5543 Marriage and Family Therapy  
 GMIN-5003 Ministry in Cities and Small Towns  
 GMIN-5023 Congregational Leadership  
 GMIN-5043 Adult Learning  
 GMIN-5113 Theology of Worship  
 GMIN-5143 Non-Christian Religions  
 GMIN-5153 Philosophical Theology  
 GMIN-5233 Acts and Ministry Formation  
 GMIN-5513 Congregational Development and Administration  
 GMIN-5743 Counseling for Ministers  
 GMIN-5843\* Special Topics in Ministry  
 GREK-5123 Intermediate Greek  
 GREK-5203 Selected Greek New Testament Readings  
 GREK-5213 Selected Greek Readings/Gospels  
 HBRW-5213 Intermediate Hebrew I  
 THEO-5003 Contemporary Theology  
 THEO-5013 Ethics  
 THEO-5033\* Selected Theology Topics  
 THEO-5113 Theology of Worship  
 THEO-5143 Non-Christian Religions  
 THEO-5153 Philosophical Theology  
 YTMN-5033\* Selected Topics in Youth Ministry  
 YTMN-5103 Adolescent Culture  
 YTMN-5163 Adolescent Physical and Spiritual Development  
 YTMN-5203 Teaching Adolescents

\*Note: The selected topics will vary. Consequently, this course may be repeated as the content varies.

## M.T.S. DEGREE WITH AN EMPHASIS IN SCRIPTURE, NON-THESIS 48 HOURS OF STUDY\*

An OC graduate with an M.T.S. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to think theologically, informed by the traditional categories and historical developments of Christian thought.
3. Demonstrate the ability to complete a large research project or demonstrate added breadth or depth in their area of interest.

\*Students who need leveling will be required to take 51 hours.

### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. This course must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies or BIBL-5043 Introduction to the New Testament and its Theologies. This course does not count toward hours required for the M.T.S. degree.

### 3 HOURS FOUNDATION REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies

### 18 HOURS BIBLE AND THEOLOGY REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies  
 BIBL-5043 Introduction to the New Testament and its Theologies  
 BIBL-5623 Advanced Biblical Exegesis  
 CHST-5003 Historical Theology I  
 CHST-5013 Historical Theology II  
 THEO-5023 Systematic Theology

### 21 HOURS BIBLICAL STUDIES

BIBL-5073 Politics and Power in Israel's First History  
 BIBL-5223 Seminar in the Gospels  
 BIBL-5233 Act and Ministry Formation  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5253\* Seminar in Selected New Testament Passages  
 BIBL-5313 Wisdom Literature  
 BIBL-5363\* Seminar in Selected Old Testament Passages

### 6 HOURS NON-THESIS ADDITIONAL ELECTIVES

BIBL-5223 Seminar in the Gospels  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5253\* Seminar in Selected New Testament Passages  
 BIBL-5313 Wisdom Literature  
 BIBL-5363\* Seminar in Selected Old Testament Passages

|            |   |
|------------|---|
| CHST-5023  | History of the Restoration Movement       |
| CHST-5033* | Seminar in Selected Church History Topics |
| GREK-5103* | Elementary Greek I                        |
| GREK-5113* | Elementary Greek II                       |
| HBRW-5113* | Elementary Hebrew I                       |
| HBRW-5123* | Elementary Hebrew II                      |
| THEO-5003  | Contemporary Theology                     |
| THEO-5013  | Ethics                                    |
| THEO-5033* | Seminar in Selected Theology Topics       |
| THEO-5113  | Theology of Worship                       |
| THEO-5143  | Non-Christian Religions                   |
| THEO-5153  | Philosophical Theology                    |

If Elementary Greek I is selected, the student must also take Elementary Greek II. If Elementary Hebrew I is selected, the student must also take Elementary Hebrew II.

\*Note: The selected texts will vary. Consequently, this course may be repeated as the content varies.

## M.T.S. DEGREE WITH AN EMPHASIS IN SCRIPTURE, THESIS 48 HOURS OF STUDY\*

An OC graduate with an M.T.S. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to think theologically, informed by the traditional categories and historical developments of Christian thought.
3. Demonstrate the ability to complete a large research project or demonstrate added breadth or depth in their area of interest.

\*Students who need leveling will be required to take 51 hours.

### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. This course must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies or BIBL-5043 Introduction to the New Testament and its Theologies. This course does not count toward hours required for the M.T.S. degree.

### 3 HOURS FOUNDATION REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies

### 18 HOURS BIBLE AND THEOLOGY REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies

BIBL-5043 Introduction to the New Testament and its Theologies

BIBL-5623 Advanced Biblical Exegesis

CHST-5003 Historical Theology I

CHST-5013 Historical Theology II

THEO-5023 Systematic Theology

### 15 HOURS BIBLICAL STUDIES ELECTIVES

BIBL-5073 Politics and Power in Israel's First History

BIBL-5223 Seminar in the Gospels

BIBL-5233 Act and Ministry Formation

BIBL-5243 Seminar in the Pauline Epistles

BIBL-5253\* Seminar in Selected New Testament Passages

BIBL-5313 Wisdom Literature

BIBL-5363\* Seminar in Selected Old Testament Passages

### 6 HOURS ADDITIONAL BIBLICAL ELECTIVES

BIBL-5073 Politics and Power in Israel's First History

BIBL-5223 Seminar in the Gospels

BIBL-5233

Act and Ministry Formation

BIBL-5243

Seminar in the Pauline Epistles

BIBL-5253\*

Seminar in Selected New Testament Passages

BIBL-5313

Wisdom Literature

BIBL-5363\*

Seminar in Selected Old Testament Passages

CHST-5023

History of the Restoration Movement

CHST-5033\*

Seminar in Selected Church History Topics

GREK-5103

Elementary Greek I

GREK-5113

Elementary Greek II

HBRW-5113

Elementary Hebrew I

HBRW-5123

Elementary Hebrew II

THEO-5003

Contemporary Theology

THEO-5013

Ethics

THEO-5033\*

Seminar in Selected Theology Topics

THEO-5113

Theology of Worship

THEO-5143

Non-Christian Religions

THEO-5153

Philosophical Theology

If Elementary Greek I is selected, the student must also take Elementary Greek II. If Elementary Hebrew I is selected, the student must also take Elementary Hebrew II.

### 6 HOURS OF THESIS

BIBL-5713 Scripture Thesis I

BIBL-5723 Scripture Thesis II

\*Note: The selected texts will vary. Consequently, this course may be repeated as the content varies.

## M.T.S. DEGREE WITH AN EMPHASIS IN THEOLOGY, NON-THESIS 48 HOURS OF STUDY\*

An OC graduate with an M.T.S. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to think theologically, informed by the traditional categories and historical developments of Christian thought.
3. Demonstrate the ability to complete a large research project or demonstrate added breadth or depth in their area of interest.

\*Students who need leveling will be required to take 51 hours.

### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. This course must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies or BIBL-5043 Introduction to the New Testament and its Theologies. This course does not count toward hours required for the M.T.S. degree.

### 3 HOURS FOUNDATIONS REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies

### 18 HOURS BIBLE AND THEOLOGY REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies  
 BIBL-5043 Introduction to the New Testament and its Theologies  
 BIBL-5623 Advanced Biblical Exegesis  
 CHST-5003 Historical Theology I  
 CHST-5013 Historical Theology II  
 THEO-5023 Systematic Theology

### 21 HOURS OF THEOLOGY ELECTIVES

CHST-5023 History of the Restoration Movement  
 CHST-5033 Seminar in Selected Church History Topics  
 THEO-5003 Contemporary Theology  
 THEO-5013 Ethics  
 THEO-5033\* Seminar in Selected Theology Topics  
 THEO-5113 Theology of Worship  
 THEO-5143 Non-Christian Religions  
 THEO-5153 Philosophical Theology

### 6 HOURS NON-THESIS ADDITIONAL ELECTIVES

BIBL-5073 Politics and Power in Israel's First History  
 BIBL-5223 Seminar in the Gospels  
 BIBL-5233 Act and Ministry Formation  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5253\* Seminar in Selected New Testament Passages  
 BIBL-5313 Wisdom Literature  
 BIBL-5363\* Seminar in Selected Old Testament Passages  
 CHST-5023 History of the Restoration Movement  
 CHST-5033\* Seminar in Selected Church History Topics  
 GREK-5103 Elementary Greek I  
 GREK-5113 Elementary Greek II  
 HBRW-5113 Elementary Hebrew I  
 HBRW-5123 Elementary Hebrew II  
 THEO-5003 Contemporary Theology  
 THEO-5013 Ethics  
 THEO-5033\* Seminar in Selected Theology Topics  
 THEO-5113 Theology of Worship  
 THEO-5143 Non-Christian Religions  
 THEO-5153 Philosophical Theology  
 If Elementary Greek I is selected, the student must also take Elementary Greek II. If Elementary Hebrew I is selected, the student must also take Elementary Hebrew II.

\*Note: The selected topics will vary. Consequently, this course may be repeated as the content varies.

## M.T.S. DEGREE WITH AN EMPHASIS IN THEOLOGY, THESIS 48 HOURS OF STUDY\*

An OC graduate with an M.T.S. degree will:

1. Demonstrate the ability to interpret and communicate biblical texts informed by the historical and cultural context in which the texts were written.
2. Demonstrate the ability to think theologically, informed by the traditional categories and historical developments of Christian thought.
3. Demonstrate the ability to complete a large research project or demonstrate added breadth or depth in their area of interest.

\*Students who need leveling will be required to take 51 hours.

### 3 HOURS LEVELING

BIBL-5023 Graduate Survey of the Bible

Note: This course is only required of students with less than 10 hours of undergraduate biblical text courses. This course must be completed before enrolling in BIBL-5033 Introduction to the Old Testament and its Theologies or BIBL-5043 Introduction to the New Testament and its Theologies. This course does not count toward hours required for the M.T.S. degree.

### 3 HOURS FOUNDATION REQUIRED

BIBL-5013 Introduction to Graduate Biblical Studies

### 18 HOURS BIBLE AND THEOLOGY REQUIRED

BIBL-5033 Introduction to the Old Testament and its Theologies  
 BIBL-5043 Introduction to the New Testament and its Theologies  
 BIBL-5623 Advanced Biblical Exegesis  
 CHST-5003 Historical Theology I  
 CHST-5013 Historical Theology II  
 THEO-5023 Systematic Theology

### 15 HOURS OF THEOLOGY ELECTIVES

CHST-5023 History of the Restoration Movement  
 CHST-5033 Seminar in Selected Church History Topics  
 THEO-5003 Contemporary Theology  
 THEO-5013 Ethics  
 THEO-5033\* Seminar in Selected Theology Topics  
 THEO-5113 Theology of Worship  
 THEO-5143 Non-Christian Religions  
 THEO-5153 Philosophical Theology

### 6 HOURS OF THESIS

THEO-5713 Theology Thesis I  
 THEO-5723 Theology Thesis II

### 6 HOURS ADDITIONAL ELECTIVES

BIBL-5073 Politics and Power in Israel's First History  
 BIBL-5223 Seminar in the Gospels  
 BIBL-5233 Acts and Ministry Formation  
 BIBL-5243 Seminar in the Pauline Epistles  
 BIBL-5253\* Seminar in Selected New Testament Passages  
 BIBL-5313 Wisdom Literature  
 BIBL-5363\* Seminar in Selected Old Testament Passages  
 CHST-5023 History of the Restoration Movement  
 CHST-5033\* Seminar in Selected Church History Topics  
 GREK-5103 Elementary Greek I  
 GREK-5113 Elementary Greek II  
 HBRW-5113 Elementary Hebrew I  
 HBRW-5123 Elementary Hebrew II  
 THEO-5003 Contemporary Theology  
 THEO-5013 Ethics  
 THEO-5033\* Seminar in Selected Theology Topics  
 THEO-5113 Theology of Worship  
 THEO-5143 Non-Christian Religions  
 THEO-5153 Philosophical Theology  
 If Elementary Greek I is selected, the student must also take Elementary Greek II. If Elementary Hebrew I is selected, the student must also take Elementary Hebrew II.

\*Note: The selected topics will vary. Consequently, this course may be repeated as the content varies.

# COLLEGE OF BUSINESS ADMINISTRATION

## GRADUATE SCHOOL OF

# BUSINESS

### AREAS OF STUDY

Accounting (ACCT)  
Business (BUSA)  
Finance (FINC)  
Health Services Management (HSMT)  
Human Resource Management (HRMT)  
Information Systems (INFO)  
International Business (INTL)  
Management (MGMT)  
Marketing (MKTG)  
Non-Profit Management (NPRO)

### DEGREES OFFERED

M.Acc. Degree in Accounting  
M.B.A. Degree with an Emphasis in Accounting  
M.B.A. Degree with an Emphasis in Finance  
M.B.A. Degree with an Emphasis in General Business  
M.B.A. Degree with an Emphasis in Health Services Management  
M.B.A. Degree with an Emphasis in Human Resources  
M.B.A. Degree with an Emphasis in International Business  
M.B.A. Degree with an Emphasis in Leadership and Organizational Management  
M.B.A. Degree with an Emphasis in Marketing  
M.B.A. Degree with an Emphasis in Non Profit Organization Management  
M.B.A. Degree with an Emphasis in Project Management

### ADMINISTRATION

Jeffery Simmons, D.B.A.  
Dean, College of Business Administration  
Professor of Business  
Kenneth Johnson, D.B.A.  
Chair, Graduate School of Business  
Associate Professor of Accounting  
Kathy Milligan, B.S.  
Director of the Graduate School of Business  
Angela Kopy, B.B.A.  
Associate Director of the Graduate School of Business  
Angie Ricketts, M.B.A.  
Graduate Admissions Counselor  
Jean Rindiro, M.B.A.  
Director of Admissions and Operations in Rwanda  
Bertha Mbabazi, B.A.  
Administrative Assistant in Rwanda

### FACULTY

Jeffery Simmons, D.B.A.

Dean, College of Business Administration  
Professor of Business  
Kenneth Johnson, D.B.A.  
Chair, Graduate School of Business  
Associate Professor of Accounting  
Mickey Cowan, M.S.  
Professor of Accounting  
Donald V. Drew, Ed.D.,  
Chair, Department of Management and Marketing  
Professor of Business  
Jody Jones, Ed.D.  
Associate Professor of Business  
Elaine Kelly, M.B.A.  
Chair, Department of Accounting and Finance  
Associate Professor of Accounting  
Phil Lewis, Ed.D.,  
Professor of Business  
Kimberly Merritt, D.B.A.  
Professor of Business  
Kenneth A. Miller, Ph.D.  
Associate Professor of Business  
Kerianne Roper, D.B.A.  
Associate Professor of Business  
Burton Smith, Ed.D.  
Professor of Marketing  
Daniel Sorensen, D.B.A.  
Associate Professor of Accounting

### SUMMARY

The Graduate School of Business offers the Master of Accountancy (M.Acc.) and Master of Business Administration (M.B.A.). The M.Acc. program requires 30 hours, 18 hours of Accounting and 12 hours of business law, ethics, economics, and finance. The M.B.A. requires 36-48 hours, depending on the student's prior study of foundational courses, including management, marketing, accounting, and economics. Students may take a general M.B.A. approach that consists of nine core business courses and three courses of electives, or may specialize by taking the nine core business courses and three "track" courses.

### PURPOSE

The M.Acc. program focuses on advanced accounting practices, and research enhances business scholarship within the G.S.B. The M.Acc. curriculum is centered on creating accountants with the highest ethical and professional standards. The M.Acc. program seeks to provide students who major in accounting in their undergraduate studies with the opportunity to complete an academically rigorous master degree and achieve the level

of education needed to qualify for the Certified Public Accountant (C.P.A.) examination, preparing them for careers in major corporations and public accounting firms.

The M.B.A. program in the G.S.B. seeks to fulfill the mission of Oklahoma Christian University to transform lives for Christian faith, scholarship, and service. To accomplish its mission, the G.S.B. cultivates relationships among current and former students, business partners, and the university. It provides a rich, integrative learning experience to foster creative thinking and ingenuity and graduates people of character, integrity, competence, and knowledge.

## ADMISSIONS DETAILS FOR THE M.ACC. PROGRAM

### Admission Requirements for Degree-Seeking Applicants

Requirements are as follows:

- Completed application and three letters of reference
- Application fee of \$25
- Resume
- Bachelor degree from a regionally-accredited U.S. institution or international equivalent (students from all academic disciplines are invited to apply)
- Student has had Finance, Micro, and Macro Economics
- 30 Hours of Accounting to include Tax and Auditing
- All undergraduate and graduate transcripts
- Minimum 3.0 undergraduate grade point average
- TOEFL paper score of 550, or computer score of 213, or web-based score of 79 or higher (international students only)

Other requirements include the following:

- Either GMAT score of 450 or GRE score of 285 with a 3.0 writing component
- Exam must have been taken within the past five years
- Students applying with a cumulative undergraduate GPA of 3.25 and higher need not submit test scores
- Students with a cumulative undergraduate GPA of 3.0 or higher and five years of verifiable experience need not submit scores (must be reflected in resume)
- Students with at least nine hours of "B" or better graduate work from an accredited university need not submit scores

If enrollment requirements are otherwise met, the student will be granted provisional entry for the first semester and must maintain a GPA of 3.0 or higher.

Provisional admission may be granted to applicants with a bachelor degree in disciplines other than accounting but who have successfully completed 30 hours of fundamental undergraduate courses in accounting.

## ADMISSIONS DETAILS FOR THE M.B.A. PROGRAM

### Admission Requirements for Degree-Seeking Applicants

Requirements are as follows:

- Completed application and three letters of reference
- Application fee of \$25
- Bachelor degree from a regionally-accredited U.S. institution or international equivalent (students from all academic disciplines are invited to apply)
- All undergraduate and graduate transcripts
- Minimum 2.5 undergraduate grade point average
- TOEFL paper score of 550 or computer score of 213 or web based score of 79 or higher (international students only)

The M.B.A. program seeks to prepare students for the world of business. Such preparation and equipping require instruction in both business theory and applied, practical skills. Consequently, the M.B.A. is an integrated program of rigorous studies and intense skill development for persons who desire to equip themselves for professional and personal growth.

Other requirements include the following:

- Either GMAT score of 450 or GRE score of 285 with a 3.0 writing component.
- Exam must have been taken within the past five years.
- Students applying with a cumulative undergraduate GPA of 3.25 and higher need not submit test scores.
- Students with a cumulative undergraduate GPA of 3.0 or higher and five years of verifiable experience need not submit scores (must be reflected in resume).
- Students with at least nine hours of "B" or better graduate work from an accredited university need not submit scores.

Provisional admission may be granted to applicants with a bachelor degree in disciplines other than business who have not successfully completed fundamental undergraduate courses in accounting, marketing, economics, and management.

## GRADUATION

Candidates for degrees must make written application for graduation in the Registrar's Office during the first two weeks of the semester in which they plan to graduate.

## TESTING

To ensure the academic integrity of the online programs, all online courses will have at least one proctored exam or assessment.

In order to graduate, M.Acc. students must complete the Common Professional Component Based Competency Exam by Peregrine Academic Services. To access specific accounting and business topic learning outcomes, the M.Acc. students' scores on the Peregrine Exam will be compared to other ACBSP schools' average scores. The program standard is that OC's average score will be at or above the national average in each category.

In order to graduate, M.B.A. students must complete the Major Field Test at the end of their program. This national standardized test will have an impact on the student's grade for the M.B.A. capstone course. It is a comprehensive test assessing the M.B.A. student's overall education and skills in the core subjects. The test will be administered online with ETS during Strategic Management and Change class time. See the G.S.B. chair for more information.

## TRANSFER CREDIT

There is no automatic transfer of credit toward meeting degree requirements. The Chair must approve work accepted for credit. No work with a grade of less than "B" will be considered to meet program requirements. No more than six transfer hours may be used to fulfill degree requirements.

## "C" GRADES

In addition to general retention requirements for graduate students, M.Acc. and M.B.A. students are allowed only two grades of "C" in their program. A student receiving a third "C" will be required to repeat one of the courses to improve his or her grade for that course to "B" or better.

## CURRICULUM PRACTICAL TRAINING

MBA Students will be allowed to select a practicum option for each track if they wish to make industry experience part of their educational plan. This will increase the program by one to three credit hours. Students selecting this option will be responsible for locating an appropriate industry opportunity himself/herself. The student will need to work closely with the G.S.B. Director and International Student Advisor to receive necessary approvals PRIOR to starting the practicum.

## M.ACC. DEGREE IN ACCOUNTING 30 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Accountancy degree consists of 30 credit hours for students possessing undergraduate degrees in accounting or students who have completed 30 hours of accounting and have a bachelor degree. The core of the M.Acc. degree focuses on advanced accounting topics. The program will utilize “hands-on” experiences and theory-based research. Of the 30 graduate credit hours, 18 hours (six courses) are devoted to accounting, and 12 hours (four courses) focus on other business-related topics.

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

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

\*Students with only 24 credit hours of undergraduate accounting will be required to take ACCT-5003 (only offered during the summer).

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### ACCOUNTING LEVELING (3 HOURS)

ACCT-5003      Issues in Advanced Accounting Concepts

### 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

## M.B.A. DEGREE WITH AN EMPHASIS IN ACCOUNTING 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

### 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 |

### 9 HOURS ACCOUNTING CHOSEN FROM

|           |   |
|-----------|---|
| ACCT-5113 | Advanced Tax Accounting                   |
| ACCT-5123 | Advanced Auditing and Professional Ethics |
| ACCT-5133 | Advanced Financial Accounting             |
| ACCT-5803 | Special Topics                            |

### BUSINESS FOUNDATION STUDIES (27 HOURS)

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

\*This track is generally restricted to students with undergraduate majors in accounting or who have completed a minimum of 24 hours of accounting coursework. (Must include Tax and Auditing). The courses are specifically designed to prepare students to take the Oklahoma Certified Public Accountant (CPA) exam. An M.B.A. degree with this track and an undergraduate degree in business with an accounting major will meet all academic qualifications for the state of Oklahoma necessary to take the CPA exam.

## M.B.A. DEGREE WITH AN EMPHASIS IN FINANCE 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

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### 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 Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

### 9 HOURS FINANCE ELECTIVES CHOSEN FROM

|           |                                 |
|-----------|---------------------------------|
| FINC-5113 | Advanced Financial Management   |
| FINC-5123 | Financial Planning              |
| FINC-5133 | Risk Management                 |
| FINC-5143 | Investments                     |
| FINC-5153 | International Trade and Finance |
| FINC-5803 | Special Topics                  |

## M.B.A. DEGREE WITH AN EMPHASIS IN GENERAL BUSINESS

### 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

#### 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 |

|           |
|-----------|
| FINC-5803 |
| HRMT-5663 |
| HRMT-5673 |
| HRMT-5683 |

|  |
|--|
| Special Topics                                       |
| Human Resources Management                           |
| Core Resources/Compensational Benefits               |
| Strategic Human Resources/Organizational Development |

#### BUSINESS FOUNDATION STUDIES (27 HOURS)

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

|           |
|-----------|
| HRMT-5803 |
| HSMT-5243 |
| HSMT-5253 |
| HSMT-5263 |
| HSMT-5803 |
| INTL-5413 |
| INTL-5423 |
| INTL-5433 |
| INTL-5803 |

|  |
|--|
| Special Topics                                   |
| Foundations of Integrated Health Care Management |
| Hospital Operations Management                   |
| Practice Management in Health Care Systems       |
| Special Topics                                   |
| International Management                         |
| International Trade and Finance                  |
| International Marketing                          |
| Special Topics                                   |

#### 9 HOURS ELECTIVES CHOSEN FROM

|           |   |
|-----------|---|
| ACCT-5113 | Advanced Tax Accounting                   |
| ACCT-5123 | Advanced Auditing and Professional Ethics |
| ACCT-5133 | Advanced Financial Accounting             |
| ACCT-5803 | Special Topics                            |
| BUSA-5243 | Management Science and Operations         |
| BUSA-5253 | Project and Technology Management         |
| BUSA-5263 | Quality Assurance and Control             |
| BUSA-5803 | Special Topics                            |
| FINC-5113 | Advanced Financial Management             |
| FINC-5123 | Financial Planning                        |
| FINC-5133 | Risk Management                           |
| FINC-5143 | Investments                               |
| FINC-5153 | International Trade and Finance           |

|           |
|-----------|
| MGMT-5623 |
| MGMT-5633 |
| MGMT-5643 |
| MGMT-5663 |
| MGMT-5673 |
| MGMT-5803 |
| MKTG-5733 |
| MKTG-5743 |
| MKTG-5753 |
| MKTG-5803 |
| NPRO-5313 |
| NPRO-5323 |
| NPRO-5333 |
| NPRO-5803 |

|   |
|---|
| Team and Group Leadership                     |
| Systems Diagnosis and Intervention Techniques |
| Organizational Development and Design         |
| Human Resource Management                     |
| Non-Profit Organization Management            |
| Special Topics                                |
| Marketing Research                            |
| International Marketing                       |
| e-Commerce Marketing and Management           |
| Special Topics                                |
| Non Profit Organization Management            |
| Non Profit Governance and Financial Oversight |
| Non Profit Human Resources Management         |
| Special Topics                                |

## M.B.A. DEGREE WITH AN EMPHASIS IN HEALTH SERVICES MANAGEMENT

### 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

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#### 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 |

#### 9 HOURS HEALTH SERVICES MANAGEMENT ELECTIVES CHOSEN FROM

|           |  |
|-----------|--|
| HSMT-5243 | Foundations of Integrated Health Care Management |
| HSMT-5253 | Hospital Operations Management                   |
| HSMT-5263 | Practice Management in Health Care Systems       |
| HSMT-5803 | Special Topics                                   |

#### BUSINESS FOUNDATION STUDIES (27 HOURS)

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

## M.B.A. DEGREE WITH AN EMPHASIS IN HUMAN RESOURCES 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

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### 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 |

### 9 HOURS HUMAN RESOURCES CHOSEN FROM

|           |  |
|-----------|--|
| HRMT-5663 | Human Resources Management                           |
| HRMT-5673 | Core Resources/Compensational Benefits               |
| HRMT-5683 | Strategic Human Resources/Organizational Development |
| HRMT-5803 | Special Topics                                       |

### BUSINESS FOUNDATION STUDIES (27 HOURS)

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

## M.B.A. DEGREE WITH AN EMPHASIS IN INTERNATIONAL BUSINESS

### 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

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#### 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 |

#### 9 HOURS INTERNATIONAL BUSINESS CHOSEN FROM

|           |                                 |
|-----------|---------------------------------|
| INTL-5413 | International Management        |
| INTL-5423 | International Trade and Finance |
| INTL-5433 | International Marketing         |
| INTL-5803 | Special Topics                  |

#### BUSINESS FOUNDATION STUDIES (27 HOURS)

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

## M.B.A. DEGREE WITH AN EMPHASIS IN LEADERSHIP AND ORGANIZATIONAL DEVELOPMENT, 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

### 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 Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

### 9 HOURS LEADERSHIP AND ORGANIZATIONAL DEVELOPMENT ELECTIVES CHOSEN FROM

|           |   |
|-----------|---|
| MGMT-5623 | Team and Group Leadership                     |
| MGMT-5633 | Systems Diagnosis and Intervention Techniques |
| MGMT-5643 | Organizational Development and Design         |
| MGMT-5663 | Human Resource Management                     |
| MGMT-5673 | Non-Profit Organization Management            |
| MGMT-5803 | Special Topics                                |

## M.B.A. DEGREE WITH AN EMPHASIS IN MARKETING 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

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### 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 |

### 9 HOURS MARKETING ELECTIVES CHOSEN FROM

|           |                                     |
|-----------|-------------------------------------|
| MKTG-5733 | Marketing Research                  |
| MKTG-5743 | International Marketing             |
| MKTG-5753 | e-Commerce Marketing and Management |
| MKTG-5803 | Special Topics                      |

### BUSINESS FOUNDATION STUDIES (27 HOURS)

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

## M.B.A. DEGREE WITH AN EMPHASIS IN NON PROFIT MANAGEMENT 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

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### 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 |

### 9 HOURS NON PROFIT MANAGEMENT ELECTIVES CHOSEN FROM

|           |   |
|-----------|---|
| NPRO-5313 | Non Profit Organization Management            |
| NPRO-5323 | Non Profit Governance and Financial Oversight |
| NPRO-5333 | Non Profit Human Resources Management         |
| NPRO-5803 | Special Topics                                |

### BUSINESS FOUNDATION STUDIES (27 HOURS)

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

## M.B.A. DEGREE WITH AN EMPHASIS IN PROJECT MANAGEMENT

### 36 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The Master of Business Administration degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 hours for students from non-business disciplines. The coursework includes equipping the student with tools for graduate study, advanced studies in business, and training in practical leadership/management skills. Students may focus their courses in one of nine areas (tracks): accounting, finance, health services management, human resources, international business, leadership and organizational development, marketing, non-profit management, and project management; or may select three electives from among those nine areas for a general business emphasis.

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

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

\*Students without a previous degree in business may need 12 hours of leveling courses.

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#### **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 |

#### **9 HOURS PROJECT MANAGEMENT ELECTIVES CHOSEN FROM**

|           |                                   |
|-----------|-----------------------------------|
| BUSA-5243 | Management Science and Operations |
| BUSA-5253 | Project and Technology Management |
| BUSA-5263 | Quality Assurance and Control     |
| BUSA-5803 | Special Topics                    |

#### **BUSINESS FOUNDATION STUDIES (27 HOURS)**

|           |   |
|-----------|---|
| ACCT-5103 | Accounting Analysis and Control             |
| BUSA-5203 | Economic Issues                             |
| BUSA-5213 | Legal and Regulatory Issues                 |
| FINC-5103 | Financial Services                          |
| INFO-5303 | Information Technology and the Future       |
| MGMT-5603 | Ethics, Decision Making, and Communications |
| MGMT-5613 | Leaders, Managers, and Entrepreneurs        |
| MGMT-5653 | Strategic Management and Change             |
| MKTG-5703 | Marketing Management and Innovation         |

# COLLEGE OF ENGINEERING & COMPUTER SCIENCE

## GRADUATE SCHOOL OF

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# ENGINEERING & COMPUTER SCIENCE

### AREAS OF STUDY

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

### DEGREES OFFERED

M.S.C.S. Degree in Computer Science w/ an Emphasis in Software Engineering

M.S.E. Degree w/ an Emphasis in Computer Engineering  
M.S.E. Degree w/ an Emphasis in Electrical Engineering  
M.S.E. Degree w/ an Emphasis in Engineering Management  
M.S.E. Degree w/ an Emphasis in Mechanical Engineering  
M.S.E. Degree w/ an Emphasis in Software Engineering

### ADMINISTRATION

Byron Newberry, Ph.D.  
Dean, College of Engineering and Computer Science  
Professor of Mechanical Engineering

Steven Maher, M.S.E.E.  
Chair, Graduate School of Engineering and Computer Science  
Associate Professor of Electrical and Computer Engineering

Mary Ann Brown, B.A.  
Director, Graduate School of Engineering and Computer Science

Robbie Leftwich, B.S.  
Associate Director, Graduate School of Engineering and Computer Science

### FACULTY

Byron Newberry, Ph.D.  
Dean, College of Engineering and Computer Science  
Professor of Mechanical Engineering

Steven Maher, M.S.E.E.  
Chair, Graduate School of Engineering and Computer Science  
Associate Professor of Electrical and Computer Engineering

Kenneth Bell, M.S.  
Assistant Professor of Electrical and Computer Engineering

Jeff Bigelow, Ph.D.  
Chair, Department of Electrical and Computer Engineering  
Professor of Electrical and Computer Engineering

Jennifer Bryan, Ph.D.  
Associate Professor of Mathematics

David Cassel, Ph.D.  
Professor of Mechanical Engineering

Andy Harbert, M.S.  
Assistant Professor of Computer Science

Craig Johnson, Ph.D.  
Professor of Mathematics

Donald Leftwich, M.A.  
Chair, Department of Mathematics and Computer Science  
Associate Professor of Mathematics and Computer Sciences

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

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

Kevin Plumlee, M.S.  
Assistant Professor of Mechanical Engineering

Pat Smith, M.S.  
Associate Professor of Electrical and Computer Engineering

David Waldo, Ph.D.  
Professor of Electrical and Computer Engineering

Joe Watson, M.S.E.E.  
Professor of Electrical and Computer Engineering

Wayne Whaley, Ph.D.  
Chair, Department of Mechanical Engineering  
Professor of Mechanical Engineering

Debra Wood, M.S.E.  
Instructor of Mechanical Engineering

## PURPOSE AND OBJECTIVES

The M.S.C.S. and M.S.E. programs in the Graduate School of Engineering and Computer Science seek to fulfill the mission of OC to transform lives for Christian faith, scholarship, and service. Both are rigorous educational programs with a broad selection of classes that will enhance the abilities of new computer science and engineering graduates and practicing professionals who aspire to make significant contributions in technology, innovation, and productivity. The program is designed to allow a student to select areas that will add depth and breadth to his or her technical and business knowledge.

The graduate of the M.S.C.S. and M.S.E. programs at OC should have the following characteristics:

1. Increased depth of knowledge in the chosen computer science or engineering major, including a blend of current theory and practice
2. Increased breadth of knowledge extending beyond the chosen computer science or engineering major into other engineering, mathematics, computer science, and/or business topics
3. Enhanced communication skills within the practice of computer science or engineering and the management of technology
4. Knowledge of issues of ethics and social responsibility and an understanding of Christian values and faith

## SUMMARY

The M.S.C.S. requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in computer science. Those who have a degree in a closely related field like mathematics or engineering will be considered for admission based on their college work and an appropriately proposed plan of study. To be successful in the M.S.C.S. program, a student should have a background in mainstream computer science. This includes experience with procedural and OO programming languages (e.g., Ada, C, C++, Java, Pascal, or Smalltalk) and a background in computer architecture or assembly language, data structures, operating systems, software engineering, and database and related mathematics (e.g., mathematical logic, discrete mathematics, and calculus). A student who lacks experience in these areas may be admitted with deficiencies and required to take courses to remedy the deficiencies.

The M.S.E. is obtained by completing a minimum of 30 credit hours of coursework. The program is offered on campus, though some classes are also offered online. The degree allows flexibility so that recent graduates and those who have been working in their careers for some time will have the ability to incorporate academic topics that are most useful for their future directions. Students select a track of study upon beginning the program: (1) computer engineering, (2) electrical engineering, (3) engineering management, (4) mechanical engineering, or (5) software engineering. The engineering management track offers the most flexibility for working professionals seeking a blend of engineering and project management.

## CURRICULAR PRACTICAL TRAINING

Completion of 30 credit hours with a GPA of 3.0 or greater is required for graduation from the M.S.C.S. and M.S.E. programs. International students will be allowed to select a practicum option if they wish to make industry experience part of their educational plan. Enrollment in up to three additional hours of Graduate Computer Science or Engineering Practicum will increase the program by 1-3 hours. Students selecting this option will be responsible for locating an appropriate industry opportunity himself/herself. The student will need to work closely with the Office of International Programs and the GSE & CS director to receive necessary approvals PRIOR to starting the practicum.

## ADMISSION DETAILS

### Admission Requirements for Degree-Seeking Applicants

Requirements are as follows:

- Completed application and two letters of recommendation

- Application fee of \$25
- Bachelor degree from an computer science or engineering program (or international equivalent) or closely related technical field
- All undergraduate and graduate transcripts
- WES Course by Course evaluation of transcripts (international students only)
- Minimum undergraduate GPA of 2.5 required; undergraduate GPA of 3.0 preferred
- TOEFL paper score of 550 or computer score of 213 or web based score of 79 or higher IELTS of 6.5 or better (international students only)

Other requirements include the following:

- GRE: Quantitative score of 155 and a writing score of 3.0
- Exam must have been taken within the past five years
- Students applying with a cumulative undergraduate GPA of 3.25 and higher need not submit test scores
- Students with at least nine hours of "B" or better graduate work from an accredited university need not submit scores.

## OTHER CONSIDERATIONS

- Applicants who do not meet all requirements for full admission may be admitted on a provisional basis that requires them to complete specific performance requirements for continued enrollment. However, all admission decisions made by the Chair and Director are final.
- MSE applicants who have an undergraduate degree in a closely related technical field or non-ABET accredited engineering discipline will be considered for admission based on their college work and an appropriate proposed plan of study.
- Undergraduates in computer science and engineering programs at OC may be accepted into the graduate program during their junior or senior years as part of a five-year B.S. plus M.S.E. program or the combination undergraduate/graduate degree programs, provided all other admission requirements are met.
- Any and all leveling courses required by the chair for admission must be completed with a grade of "B" or better. All leveling courses must be completed within the first two semesters of attending the programs.
- In certain cases, the student's graduate committee may approve a 3000 or 4000 level course that is not cross listed for the plan of study. The Graduate School of Engineering and Computer Science maintains a list of undergraduate courses that may be appropriate.

## TYPES OF ADMISSION

Regular admission is given to students who meet all admission requirements. Provisional admission is granted to an applicant who does not meet one or more of the program's admission requirements or when the applicant does not have the necessary academic background. The necessary requirements for regular admission will be stated at the time of provisional admission. These may include completion of leveling courses with a grade of "B" or better, higher test scores, or other criteria.

## Audit Candidates

Students may be admitted to audit classes only. An application for admission must be submitted, but no official academic credentials are required.

## TRANSFER CREDIT

Up to nine semester hours of graduate credit may be transferred into these programs upon approval of the faculty. The classes should be taken at a regionally accredited university. Engineering courses must be taken at a school with ABET accredited programs. A grade of "B" or better is required and the work must have been completed within the last seven years.

## M.S.C.S. DEGREE IN COMPUTER SCIENCE W/ AN EMPHASIS IN SOFTWARE ENG., 30 HOURS OF STUDY

**PROGRAM DESCRIPTION:** The M.S.C.S. requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in computer science. Those who have a degree in a closely related field like mathematics or engineering will be considered for admission based on their college work and an appropriately proposed plan of study. To be successful in the M.S.C.S. program, a student should have a background in mainstream computer science. This includes experience with procedural and OO programming languages (e.g., Ada, C, C++, Java, Pascal, or Smalltalk) and a background in computer architecture or assembly language, data structures, operating systems, software engineering and database, and related mathematics (e.g., mathematical logic, discrete mathematics, and calculus). A student who lacks experience in these areas may be admitted with deficiencies and required to take courses to remedy the deficiencies.

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

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

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### 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        |

### 12 HOURS SOFTWARE ENGINEERING

|           |   |
|-----------|---|
| CMSC-5623 | Software Engineering for Trustworthy Software |
| CMSC-5633 | Patterns of Enterprise Systems                |
| CMSC-5733 | Software Engineering Projects I               |
| CMSC-5743 | Software Engineering Projects II              |

### 6 HOURS ELECTIVES CHOSEN FROM

|           |                                  |
|-----------|----------------------------------|
| CMSC-5113 | Software and Network Engineering |
| CMSC-5213 | Computer Networks                |
| CMSC-5223 | Computer Simulation              |
| CMSC-5233 | Mobile Application Development   |
| CMSC-5313 | Human Computer Interaction       |
| CMSC-5423 | Computer Graphics                |
| CMSC-5433 | Compiler Construction            |
| CMSC-5523 | Information Systems Security     |
| CMSC-5713 | Artificial Intelligence          |
| CMSC-5723 | Machine Learning                 |

## M.S.E. DEGREE WITH AN EMPHASIS IN COMPUTER ENGINEERING

### 30 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The M.S.E. degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in engineering. Those who have an undergraduate degree from a non-ABET accredited engineering program or in a closely related technical field, such as computer science or physics, will be considered for admission based on their college work and an appropriately proposed plan of study. The details of the Computer Engineering track are as follows:

A graduate of the M.S.E. degree will be able to:

1. Critically examine and manage contemporary challenges of the engineering profession, including professional ethics, diversity, and globalization.
2. Demonstrate the ability to critically examine the ethics of a professional scenario, formulating and defending appropriate options.
3. Demonstrate the ability to investigate and analyze the challenges of a diverse, global engineering issue.
4. Contribute to and lead multidisciplinary engineering projects.
5. Demonstrate the ability to formulate a solution strategy to engineering problems involving multiple constraints and optimization requirements.
6. Demonstrate the ability to critique others' technical work and generate professional, concise technical reports.
7. Have depth beyond the B.S. degree within the student's chosen field of specialization.
8. Demonstrate the ability to independently research and document the state-of-the-art for his/her chosen topic of specialization.
9. Demonstrate the ability to communicate depth in his/her chosen topic of specialization to the community of graduate engineering students and engineering faculty members.

\*Students without a previous degree in engineering may need 3 or more hours of leveling.

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#### ENGINEERING LEVELING (BASED ON STUDENT NEED)

ENGR-5013 Foundations of Graduate Engineering Mathematics

#### 3 HOURS ENGINEERING CHOSEN FROM

CENG, ELEC, or  
ENGR-5103 Innovation and Invention

#### 18 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003 Foundations of Technology Ethics and Values

ENGR-5113 Random Variables and Stochastic Processes  
(or a 5000-level MATH course)

#### 3 HOURS CAPSTONE

ENGR-5793 M.S.E. Capstone

ENGR-5203 Systems Engineering

ENGR-5213 Tools of Operations Research

ENGR-5223 Systems Engineering Management

ENGR-5323 Failure Analysis of Engineering Systems

#### 6 HOURS COMPUTER ENGINEERING CHOSEN FROM

CENG-5013 HDL Design of Microprocessors

CENG-5033 Software Systems Engineering

CENG-5113 Software and Network Engineering

CENG-5213 Computer Networks

CENG-5223 Embedded Systems Design

CENG-5233 Advanced Computer Architecture

CENG-5613 Object-Oriented Software Engineering

CENG-5623 Software Engineering for Trustworthy Software

## M.S.E. DEGREE WITH AN EMPHASIS IN ELECTRICAL ENGINEERING 30 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The M.S.E. degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in engineering. Those who have an undergraduate degree from a non-ABET accredited engineering program or in a closely related technical field, such as computer science or physics, will be considered for admission based on their college work and an appropriately proposed plan of study. The details of the Electrical Engineering track are as follows:

A graduate of the M.S.E. degree will be able to:

1. Critically examine and manage contemporary challenges of the engineering profession, including professional ethics, diversity, and globalization.
2. Demonstrate the ability to critically examine the ethics of a professional scenario, formulating and defending appropriate options.
3. Demonstrate the ability to investigate and analyze the challenges of a diverse, global engineering issue.
4. Contribute to and lead multidisciplinary engineering projects.
5. Demonstrate the ability to formulate a solution strategy to engineering problems involving multiple constraints and optimization requirements.
6. Demonstrate the ability to critique others' technical work and generate professional, concise technical reports.
7. Have depth beyond the B.S. degree within the student's chosen field of specialization.
8. Demonstrate the ability to independently research and document the state-of-the-art for his/her chosen topic of specialization.
9. Demonstrate the ability to communicate depth in his/her chosen topic of specialization to the community of graduate engineering students and engineering faculty members.

\*Students without a previous degree in engineering may need 3 or more hours of leveling.

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### ENGINEERING LEVELING (BASED ON STUDENT NEED)

ENGR-5013      Foundations of Graduate Engineering Mathematics

### 3 HOURS ENGINEERING CHOSEN FROM

CENG, ELEC, or  
ENGR-5103      Innovation and Invention

### 18 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003      Foundations of Technology Ethics and Values

ENGR-5113      Random Variables and Stochastic Processes  
(or a 5000-level MATH course)

ENGR-5203      Systems Engineering

ENGR-5213      Tools of Operations Research

ENGR-5223      Systems Engineering Management

ENGR-5323      Failure Analysis of Engineering Systems

### 3 HOURS CAPSTONE

ENGR-5793      M.S.E. Capstone

### 6 HOURS ELECTRICAL ENGINEERING CHOSEN FROM

ELEC-5123      Communication Systems

ELEC-5323      Semiconductor Devices

ELEC-5383      Power System Analysis

ELEC-5393      Power System Protection

ELEC-5523      Software Engineering for Real-Time Systems

ENGR-5103      Innovation and Invention

## M.S.E. DEGREE WITH AN EMPHASIS IN ENGINEERING MANAGEMENT

### 30 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The M.S.E. degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in engineering. Those who have an undergraduate degree from a non-ABET accredited engineering program or in a closely related technical field, such as computer science or physics, will be considered for admission based on their college work and an appropriately proposed plan of study. The details of the Engineering Management track are as follows:

A graduate of the M.S.E. degree will be able to:

1. Critically examine and manage contemporary challenges of the engineering profession, including professional ethics, diversity, and globalization.
2. Demonstrate the ability to critically examine the ethics of a professional scenario, formulating and defending appropriate options.
3. Demonstrate the ability to investigate and analyze the challenges of a diverse, global engineering issue.
4. Contribute to and lead multidisciplinary engineering projects.
5. Demonstrate the ability to formulate a solution strategy to engineering problems involving multiple constraints and optimization requirements.
6. Demonstrate the ability to critique others' technical work and generate professional, concise technical reports.
7. Have depth beyond the B.S. degree within the student's chosen field of specialization.
8. Demonstrate the ability to independently research and document the state-of-the-art for his/her chosen topic of specialization.
9. Demonstrate the ability to communicate depth in his/her chosen topic of specialization to the community of graduate engineering students and engineering faculty members.

\*Students without a previous degree in engineering may need 3 or more hours of leveling.

#### ENGINEERING LEVELING (BASED ON STUDENT NEED)

ENGR-5013 Foundations of Graduate Engineering Mathematics

#### 18 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003 Foundations of Technology Ethics and Values

ENGR-5113 Random Variables and Stochastic Processes  
(or a 5000-level MATH course)

ENGR-5203 Systems Engineering

ENGR-5213 Tools of Operations Research

ENGR-5223 Systems Engineering Management

ENGR-5323 Failure Analysis of Engineering Systems

#### 3 HOURS ENGINEERING MANAGEMENT REQUIRED

ENGR-5103 Innovation and Invention

#### 3 HOURS MANAGEMENT ELECTIVES CHOSEN FROM

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

BUSA-5203

BUSA-5213

BUSA-5263

BUSA-5353

FINC-5103

FINC-5153

INFO-5303

MGMT-5613

MGMT-5623

MGMT-5643

Economic Issues

Legal and Regulatory Issues

Quality Assurance and Control

Project and Technology Management

Financial Services

International Trade and Finance

Information Technology and the Future

Leaders, Managers, and Entrepreneurs

Team and Group Leadership

Organizational Development and Design

#### 3 HOURS ENGINEERING ELECTIVES CHOSEN FROM

Take 3 hours from subjects CENG, ELEC, ENGR, or MECH

#### 3 HOURS FLEX ELECTIVES CHOSEN FROM

Take 3 hours from subjects BUSA, CENG, ELEC, ENGR, MECH, or MGMT

## M.S.E. DEGREE WITH AN EMPHASIS IN MECHANICAL ENGINEERING 30 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The M.S.E. degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in engineering. Those who have an undergraduate degree from a non-ABET accredited engineering program or in a closely related technical field, such as computer science or physics, will be considered for admission based on their college work and an appropriately proposed plan of study. The details of the Mechanical Engineering track are as follows:

A graduate of the M.S.E. degree will be able to:

1. Critically examine and manage contemporary challenges of the engineering profession, including professional ethics, diversity, and globalization.
2. Demonstrate the ability to critically examine the ethics of a professional scenario, formulating and defending appropriate options.
3. Demonstrate the ability to investigate and analyze the challenges of a diverse, global engineering issue.
4. Contribute to and lead multidisciplinary engineering projects.
5. Demonstrate the ability to formulate a solution strategy to engineering problems involving multiple constraints and optimization requirements.
6. Demonstrate the ability to critique others' technical work and generate professional, concise technical reports.
7. Have depth beyond the B.S. degree within the student's chosen field of specialization.
8. Demonstrate the ability to independently research and document the state-of-the-art for his/her chosen topic of specialization.
9. Demonstrate the ability to communicate depth in his/her chosen topic of specialization to the community of graduate engineering students and engineering faculty members.

\*Students without a previous degree in engineering may need 3 or more hours of leveling.

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### ENGINEERING LEVELING (BASED ON STUDENT NEED)

ENGR-5013      Foundations of Graduate Engineering Mathematics

MECH-5143

Finite Difference Methods

MECH-5523

Finite Element Analysis

MECH-5623

Advanced Engineering Materials

### 18 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003      Foundations of Technology Ethics and Values

ENGR-5113      Random Variables and Stochastic Processes  
(or a 5000-level MATH course)

ENGR-5203      Systems Engineering

ENGR-5213      Tools of Operations Research

ENGR-5223      Systems Engineering Management

ENGR-5323      Failure Analysis of Engineering Systems

### 3 HOURS CAPSTONE

ENGR-5793      M.S.E. Capstone

### 9 HOURS MECHANICAL ENGINEERING CHOSEN FROM

ENGR-5103      Innovation and Invention

MECH-5113      Mechanical Engineering Application of Partial  
Differential Equations

## M.S.E. DEGREE WITH AN EMPHASIS IN SOFTWARE ENGINEERING 30 HOURS OF STUDY\*

**PROGRAM DESCRIPTION:** The M.S.E. degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in engineering. Those who have an undergraduate degree from a non-ABET accredited engineering program or in a closely related technical field, such as computer science or physics, will be considered for admission based on their college work and an appropriately proposed plan of study. The details of the Software Engineering track are as follows:

A graduate of the M.S.E. degree will be able to:

1. Critically examine and manage contemporary challenges of the engineering profession, including professional ethics, diversity, and globalization.
2. Demonstrate the ability to critically examine the ethics of a professional scenario, formulating and defending appropriate options.
3. Demonstrate the ability to investigate and analyze the challenges of a diverse, global engineering issue.
4. Contribute to and lead multidisciplinary engineering projects.
5. Demonstrate the ability to formulate a solution strategy to engineering problems involving multiple constraints and optimization requirements.
6. Demonstrate the ability to critique others' technical work and generate professional, concise technical reports.
7. Have depth beyond the B.S. degree within the student's chosen field of specialization.
8. Demonstrate the ability to independently research and document the state-of-the-art for his/her chosen topic of specialization.
9. Demonstrate the ability to communicate depth in his/her chosen topic of specialization to the community of graduate engineering students and engineering faculty members.

\*Students without a previous degree in engineering may need 3 or more hours of leveling.

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### ENGINEERING LEVELING (BASED ON STUDENT NEED)

ENGR-5013 Foundations of Graduate Engineering Mathematics

### 18 HOURS ENGINEERING FOUNDATION STUDIES

ENGR-5003 Foundations of Technology Ethics and Values

ENGR-5113 Random Variables and Stochastic Processes  
(or a 5000-level MATH course)

ENGR-5203 Systems Engineering

ENGR-5213 Tools of Operations Research

ENGR-5223 Systems Engineering Management

ENGR-5323 Failure Analysis of Engineering Systems

### 3 HOURS CAPSTONE

ENGR-5793 MSE Capstone

### 3 HOURS SOFTWARE ENGINEERING REQUIRED

CENG-5033 Software Systems Engineering

### 6 HOURS ELECTIVES CHOSEN FROM

Take any course from subject CMSC and/or

CENG-5013 HDL Design of Microprocessors

CENG-5113 Software and Network Engineering

CENG-5213 Computer Networks

CENG-5223 Embedded Systems Design

CENG-5233 Advanced Computer Architecture

CENG-5613 Object Oriented Software Engineering

CENG-5623 Software Engineering for Trustworthy Software

ELEC-5123 Communication Systems

ELEC-5323 Semiconductor Devices

ELEC-5383 Power System Analysis

ELEC-5393 Power System Protection

ELEC-5523 Software Engineering of Real-Time Systems

ENGR-5103 Innovation and Invention

## COURSE DESCRIPTIONS

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### ACCOUNTING (ACCT)

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#### 5003 ISSUES IN ADVANCED ACCOUNTING CONCEPTS

Prerequisite: M.Acc. program acceptance.

This course is a study of the application and theory of budgetary and fund accounting with emphasis on governmental and not for profit entities. Specialized accounting applications involving foreign operations' transactions, translation, and remeasurement are also examined. The concepts of the taxation of flow through entities are also explored.

#### 5103 ACCOUNTING ANALYSIS AND CONTROL

Prerequisite: BUSA-5033.

The course will provide the skills to assist in evaluating issues related to a company's financing and operating activities based on the financial statements. The course will also focus on how managers can effectively use accounting information to improve performance.

#### 5113 ADVANCED TAX ACCOUNTING

Prerequisite: ACCT-3413 or the equivalent. MBA-Accounting or M.Acc. program only or with chair approval.

This course is a review of relevant tax topics. The areas of the taxation of individuals, corporations, partnerships, S corporations, property transactions, and gifts and estates will be covered. This course is normally offered in the summer.

#### 5123 ADVANCED AUDITING AND PROFESSIONAL ETHICS

Prerequisite: ACCT-4413 or equivalent. MBA-Accounting or M.Acc. program only or with chair approval.

This course studies advanced concepts, theories, and techniques applied to external financial, governmental, and internal audit engagements. Ethical issues in accounting are discussed. This course is normally offered in the summer.

#### 5133 ADVANCED FINANCIAL ACCOUNTING

MBA-Accounting or M.Acc. program only or with chair approval.

This course studies advanced concepts and techniques applied to consolidations theory and practice. Emphasis is on real-world applications of how information supports managerial decision-making. This course is normally offered in the summer.

#### 5143 TOPICS IN ACCOUNTING

Prerequisite: For MAcc students only or with chair approval.

This course studies a number of key topics in accounting that are covered in the uniform CPA examination. It examines government and not-for-profit accounting and reporting, information systems as they relate to the accounting function and the use of accounting information in strategic planning and operations management. This course is normally offered in the spring.

#### 5153 ACCOUNTING THEORY

Prerequisite: For MAcc students only or with chair approval.

This course studies the evolution of alternative theories of accounting, including recognition, valuation, and measurement considerations. It includes the historical development of accounting and the standard setting process in financial accounting, and how that history has impacted current practice. Other topics include the regulation of financial reporting; the postulates, principles and concepts of financial accounting; and the conceptual strengths and weakness of current standards are explored, along with research techniques that advance the profession of accounting. IFRS guidelines will be analyzed and examined. This course is normally offered in the fall.

#### 5163 ACCOUNTING RESEARCH AND QUANTITATIVE TECHNIQUES

Prerequisite: For MAcc students only or with chair approval.

This course will examine professional research in accounting. It will cover effective writing skills, the accounting research environment, accounting research tools, and international accounting research. Research tools and techniques will be applied to the financial reporting, tax, audit and forensic accounting topics. This course is normally offered in the summer.

#### 5803 SPECIAL TOPICS

This course will cover current topics not normally included in existing courses. The course may be used as a pilot course which may be added later to the curriculum. Repeat credit on each course may be earned with different subtitles assigned to that course.

#### 5901 GRADUATE BUSINESS PRACTICUM IN ACCOUNTING

Prerequisite: Student must be in the accounting emphasis.

This course provides one to three hours of credit in association with completion of an acceptable accounting industry internship/practicum. Students selecting this option will be responsible for locating an appropriate industry opportunity. This is an optional course and does not substitute for any leveling, core, or elective courses. The curriculum practical training course period extends through an entire semester.

### BIBLE (BIBL)

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#### 5013 INTRODUCTION TO GRADUATE BIBLICAL STUDIES

This is the foundation for the entire graduate curriculum. One of the main objectives of the course will be to equip the student for the use of research tools that are available in biblical ministerial, and theological studies. This course will also include the use of the computer in research. Students for whom this course is required must complete this course as a part of their first 12 hours in the graduate programs.

#### 5023 GRADUATE SURVEY OF THE BIBLE

This course provides a student with less than 10 hours of undergraduate biblical text work an opportunity to become acquainted with the content of the biblical text and to demonstrate knowledge of the text through examination. This course is a prerequisite for students taking Introduction to the BIBL-5033 & BIBL-5043 who do not have 10 or more biblical text undergraduate course work. This course cannot be used to satisfy biblical text elective requirements for the M.A.C.M., M.Div, or M.T.S.

#### 5033 INTRODUCTION TO THE OLD TESTAMENT AND ITS THEOLOGIES

Prerequisite: BUSA-5023.

This course introduces students to the TANAK, the Old Testament in its native Hebrew setting. Students examine the interplay of narratives, poetry, prophecy, wisdom, parables, and proverbs and the dynamic tensions these in the divine-human relationship that these textual forms reflect. In addition to Christian readings of these texts, students are also introduced to various Jewish readings of the TANAK.

#### 5043 INTRODUCTION TO THE NEW TESTAMENT AND ITS THEOLOGIES

Prerequisite: BUSA-5023.

This course provides a basic overview of the New Testament books and an introduction to advanced issues related to their theologies. This will include a historical review of the Second Temple period and the settings of the book in their cultural, social, political, and religious environments important to the interpretation of the New Testament.

#### 5073 POLITICS AND POWER IN ISRAEL'S FIRST HISTORY DEUTERONOMY THROUGH 2 KINGS

This course reviews the major developments in the study of Israel's first history beginning with Noth's proposal of a "Deuteronomistic History" and continuing on through more contemporary ideologically and ethnically constructed readings of Deuteronomy - 2 Kings texts. As such, the course is concerned with evaluating the politics in the telling and retelling of the history of a people. Specifically, this course takes a critical look of a Deuteronomistic "religious reform movement" lying behind the production of the history and the way in which the history seeks to color and characterize YHWH/God as well as the kings of Israel and Judah. Students in this course will be challenged to think theologically about the fusion of politics, economics, and religious "reform" movements in the casting and re-casting of the history of a people.

#### 5223 SEMINAR IN THE GOSPELS

This course deals with the structure, characteristics, and theology of the Gospels. It also focuses on the synoptic problem, critical topics on the life of Jesus, as well as how to exegete the Gospels. The successful student will also learn skills in preparing a presentation (either a sermon or class lesson) that will show how a teaching of Jesus can be used to authorize a specific Christian or ecclesiastical practice.

#### 5233 ACTS AND MINISTRY FORMATION

This course will familiarize the student with the message and theology of Acts and assist them in identifying patterns for the ministry of the universal church, the local congregation, and the individual minister. Students will learn how to communicate a theology for one's own ministry based on the book of Acts and evaluate contemporary culture in light of the message of Acts. Same as GMIN-5233.

#### 5243 SEMINAR IN PAULINE EPISTLES

This course deals with the life and letters of the apostle Paul. Major emphasis will be on the exegesis of significant passages in the Pauline epistles and on passages that bring light to current problems being faced by the church and the religious world in general.

#### 5253 SEMINAR IN SELECTED NEW TESTAMENT PASSAGES

This course deals with the exegesis of texts in the New Testament. The selected texts may vary. Past seminars have focused on the books of Revelation and Acts. This course may be repeated as the content varies.

#### 5313 WISDOM LITERATURE

This seminar offers an introduction to the wisdom tradition of ancient Israel and advanced exegesis of the wisdom literature of the Hebrew Bible (Job, Proverbs, Ecclesiastes). Specific objectives of the course include the enhancement of the student's understanding and, thus, the student's appreciation of Israel's wisdom literature, consideration of the value and relevance of Old Testament wisdom literature for Christian life, and reflection on the problem of theodicy (i.e., God and the suffering of the righteous) through a post-holocaust reading of Job.

### 5363 SEMINAR IN SELECTED OLD TESTAMENT PASSAGES

This course deals with the exegesis of texts in the Old Testament. The selected texts may vary. Consequently, this course may be repeated as the content varies.

### 5623 ADVANCED BIBLICAL EXEGESIS

This course examines the historical quest for biblical and New Testament theologies and their subsequent demise. The development of recent "theologies" will also be surveyed. The focus, though, will be on the theologies of the various New Testament writers, the identification of an overarching "theme" in the New Testament, and the importance of these for the daily life of the church and its members.

## BUSINESS (BUSA)

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### 5013 ECONOMIC AND QUANTITATIVE ANALYSIS

Supply and demand, theory of the consumer, theory of the firm, market structures, free-market resource allocation, government regulation, international trade. Applications of statistical concepts and information systems to business practices.

### 5023 MARKETING AND THE LEGAL ENVIRONMENT

Basic concepts and problems of marketing management in the US and foreign countries. Emphasis on application of principles and theory to the development of strategy. Examination of basic rules of law pertaining to marketing practices.

### 5033 ACCOUNTING AND FINANCIAL RESOURCES

A study of the principles, conventions, and concepts underlying internal and external reporting of accounting information by business organizations. Theory and techniques of financial management for business firms.

### 5043 ORGANIZATIONAL AND OPERATIONS MANAGEMENT

Management theory and practice. Analysis of the classical/functional, human relations, management science, and production/operations models of management. Applications of statistical concepts and information systems to business practices.

### 5203 ECONOMIC ISSUES

Prerequisite: BUSA-5013.

The course covers fundamental micro and macroeconomic concepts. Emphasis on understanding the major issues of US and world economies and the application of economic concepts to management problems.

### 5213 LEGAL AND REGULATORY ISSUES

The course studies the legal environment within which a business must operate. Emphasis is on understanding legal issues and laws affecting business operations and decision-making.

### 5243 MANAGEMENT SCIENCE AND OPERATIONS

The course examines the integration of human, technology, and material resources in the management of operations in service and manufacturing organizations. Examines the use of quantitative methods designed to equip the student to excel in the quantitative aspects of business decision making. This course is normally offered in the summer.

### 5253 PROJECT AND TECHNOLOGY MANAGEMENT

This course explores major problems, tasks, and techniques required to manage the technical program in each phase of the product life cycle. Emphasis is placed on organizational planning and development, decision making, and internal/external interface techniques. This course is normally offered in the summer.

### 5263 QUALITY ASSURANCE AND CONTROL

This course discusses the fundamental concepts and methods of quality and productivity improvement. This course is normally offered in the summer.

### 5803 SPECIAL TOPICS

This course will cover current topics not normally included in existing courses. The course may be used as a pilot course which may be added later to the curriculum. Repeat credit on each course may be earned with different subtitles assigned to that course.

### 5901 GRADUATE BUSINESS PRACTICUM IN PROJECT MANAGEMENT

Prerequisite: Student must be enrolled in project management emphasis.

This course provides one to three hours of credit in association with completion of an acceptable industry internship/practicum emphasizing project management. Students selecting this option will be responsible for locating an appropriate industry opportunity. This is an optional course and does not substitute for any leveling, core, or elective courses. The curriculum practical training course period extends through an entire semester.

## CHURCH HISTORY (CHST)

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### 5003 HISTORICAL THEOLOGY I

A chronological study of the history of Christian thought and interpretation of Scripture, beginning with the second century and extending through the late Middle Ages. Particular attention will be given to the development of the Christian canon, to the first seven Ecumenical Councils and the theological controversies surrounding them, and to the Platonic and Aristotelian strands of thought and their effects upon Christian theology.

### 5013 HISTORICAL THEOLOGY II

A chronological study of the history of Christian thought and interpretation of Scripture, beginning with the Renaissance and Reformation period and extending into the contemporary post-modern period. Special attention will be given to the Lutheran tradition, the Reformed tradition, and Roman Catholic responses to them, as well as to theology in the Modernist and Post-Modernist modes.

### 5023 HISTORY OF THE RESTORATION MOVEMENT

In addition to studying the basic historical development of the restoration concept from the Middle Ages and Reformation to the present, students will read, analyze and discuss many of the primary documents of the movement. They will also discuss the relevance of the concept for today.

### 5033 SEMINAR IN SELECTED CHURCH HISTORY TOPICS

The content of this course varies depending on the interests of the students and teacher. The course may be repeated as content varies.

## COMPREHENSIVE EXAM (COMP)

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### 5900 M.A.C.M. COMPREHENSIVE EXAMINATION

Students in the M.A. degree program must enroll in this course the semester in which they will take their comprehensive examination.

### 5901 M.DIV. COMPREHENSIVE EXAMINATION

Students in the M.Div. degree program are required to enroll in this one-hour course the semester in which they will take their comprehensive examination.

## COMPUTER ENGINEERING (CENG)

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### 5013 HDL DESIGN OF MICROPROCESSORS

Prerequisite: CENG-3203 Introduction to Microprocessors or equivalent.

Design of modern integrated circuits with emphasis on design and development of custom digital circuits using Hardware Description Languages (HDL, e.g., VHDL/Verilog). Projects requiring both hardware and software architecture elements will be developed. A complete application-specific microprocessor will be designed, implemented, and tested in the lab. Students cannot receive credit for both CENG-4303 and CENG-5013. 2 hour lecture, 3 hour lab.

### 5033 SOFTWARE SYSTEMS ENGINEERING

Development of large, complex, software intensive systems requires expertise in Software Systems Engineering. System development ranges from user needs through deployment and maintenance of the system. Topics include system life cycles, processes, models, methods and tools for software systems development.

### 5113 SOFTWARE AND NETWORK ENGINEERING

Prerequisite: CENG-3113 Data Communications and Networking or equivalent.

A study of advanced computer network systems design issues. Examination of the prominent protocols and standards for wired and wireless local area networks and the wireless Internet. Students cannot receive credit for both CENG-4123 and CENG-5113.

### 5213 COMPUTER NETWORKS

A course covering computer and data communications and computer networks. Strong emphasis on Layer 2 – Layer 4 Internet protocols, including Ethernet, IP, TCP, and UDP. The course includes the use of network analyzers to enable hands-on network protocol experience. Students cannot receive credit for both CENG-3113 and CENG-5213.

### 5223 EMBEDDED SYSTEMS DESIGN

Prerequisite: CENG-3203 or equivalent.

Embedded microcontroller system design using an integrated development environment (IDE). Starting with a set of specifications, starting with a self-contained finished microprocessor-based product will be design 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.

### 5233 ADVANCED COMPUTER ARCHITECTURE

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, microprocessors, storage systems, clusters, historical perspectives. Students cannot receive credit for both CENG-4233 and CENG-5233.

### 5613 OBJECT-ORIENTED SOFTWARE ENGINEERING

An introductory software engineering course for students who can program in either C++ or Java. Since the tools and techniques now widely available are for Java, the course would begin by teaching C++ programmers the simplifications that led to Java (no multiple inheritances, no manual storage management, and no operator overloading). The goal of the course would be to prepare the programmer to be a software engineer and to begin the study of software architecture. Students cannot receive credit for both CENG-4813 and CENG-5613.

### 5623 SOFTWARE ENGINEERING FOR TRUSTWORTHY SOFTWARE

This course explores the technologies and methodology underlying a new robust software design model (RSDM) for software development based on successful methods used in hardware design and development. These include cost of software quality (CoSQ), the analytic hierarchy process (AHP), inventive problem solving (TRIZ), failure mode effects analysis (FMEA), quality function deployment (QFD), and Taguchi Methods, including orthogonal matrix methods. The overall design approach is to eliminate software problems as far upstream in the development process as possible, rather than finding and fixing bugs downstream. The course is intended for the software architect or software engineer or the programmer or student wishing to progress into software design.

## COMPUTER SCIENCE (CMSC)

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### 5003 FOUNDATIONS OF TECHNOLOGY ETHICS AND VALUES

Theories of engineering and computer science ethics and values. Ethical theory from a Christian viewpoint. Impact of technology on society. Individual options and obligations for action. Case studies will be used to study a range of issues including environment, safety, honesty, organizational communication, quality control, and product liability. Same as ENGR-5003.

### 5013 DATA COMMUNICATIONS AND NETWORKING

A study of the concepts and terminology of data communications, network design, and distributed information systems. Topics include transmission service and equipment characteristics, protocols, data communications software, and federal regulatory policy. This course is normally offered in the fall semester.

### 5113 SOFTWARE AND NETWORK ENGINEERING

A study of advanced computer network systems design issues. Examination of the prominent protocols and standards for wired and wireless local area networks and the wireless internet. Same as CENG-5113.

### 5213 COMPUTER NETWORKS

A course covering computer and data communications and computer networks. Strong emphasis on Layer 2 - Layer 4 internet protocols, including ethernet, IP, TCP, and UDP. The course includes the use of network analyzers to enable hands on network protocol experience. Same as CENG-5213.

### 5223 COMPUTER SIMULATION

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. Students cannot receive credit for both CMSC-4223 and CMSC-5223.

### 5233 MOBILE APPLICATION DEVELOPMENT

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 in the spring semester of even numbered years. Students cannot receive credit for both CMSC-4233 and CMSC-5233.

### 5313 HUMAN COMPUTER INTERACTION

An introduction to user interfaced design and user experience. Topics include HCI concepts and principles, usability, HCI evaluation, HCI design, interaction devices. This course is normally offered in the fall semester of odd numbered years. Student cannot receive credit for both CMSC-4113 and CMSC-5313.

### 5323 DATABASE SYSTEMS

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. Students cannot receive credit for both CMSC-4323 and CMSC-5323.

### 5333 ADVANCED DATABASE SYSTEMS

Prerequisite: CMSC-4323 or 5323.  
This course will investigate new database technologies. Topics will include managing and using large skill data sets, high-velocity transaction processing, stream processing, real time analytics, and high-volume data processing. The discussions will focus on several real-world application domains, such as internet advertising, healthcare, and social network analysis.

### 5343 ALGORITHM ANALYSIS

An introduction to the analysis and design of algorithms. Topics include algorithm performance, verification of correctness, and application of analysis technique to a variety of simple and complex algorithms.

### 5413 OPERATING SYSTEMS

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. Students cannot receive credit for both CMSC-4413 and CMSC-5413.

### 5423 COMPUTER GRAPHICS

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. Students cannot receive credit for both CMSC-4423 and CMSC-5423.

### CMSC-5433: COMPILER CONSTRUCTION

An introduction to compiler construction. Topics will include lexical analysis, syntax analysis, intermediate code generation, runtime environments, code generation, and optimization.

### CMSC-5513: PROGRAMMING LANGUAGES

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. Students cannot receive credit for both CMSC-4513 and CMSC-5513.

### CMSC-5523: INFORMATION SYSTEMS SECURITY

An introduction to information system security. Topics include cryptography, access control, protocols, and software security. Students cannot receive credit for both CMSC-4523 and CMSC-5523.

### CMSC-5613: OBJECT ORIENTED SOFTWARE ENGINEERING

An introductory software engineering course for students who can program in either C++ or Java. Since the tools and techniques now widely available are for Java, the course would begin by teaching C++ programmers the simplifications that led to Java (no multiple inheritances, no manual storage management, and no operator overloading). The goal of the course would be to prepare the programmer to be software engineering and to begin the study of software architecture. Same as CENG-5613.

### CMSC-5623: SOFTWARE ENGINEERING FOR TRUSTWORTHY SOFTWARE

This course explores the technologies and methodologies underlying a new robust software design model (RSDM) for software development based on successful methods used in hardware design and development. These include cost of software quality (CoSQ), the analytic hierarchy process (AHP), inventive problem solving (TRIZ), failure mode effects analysis (FMEA), quality function deployment (QFD), and Taguchi Methods, including orthogonal matrix methods. The overall design approach is to eliminate software problems as far upstream in the development process as possible, rather than finding and fixing bugs downstream. The course is intended for the software architect or software engineer or the programmer or student wishing to progress into software design. Same as CENG-5623.

### CMSC-5633: PATTERNS OF ENTERPRISE SYSTEMS

Prerequisite: CMSC-5613.  
This course will investigate the organization of large enterprise systems. Topics include system component layering, domain logic, relational database mapping, web presentation, concurrency, and distribution strategies.

### CMSC-5713: ARTIFICIAL INTELLIGENCE

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 in the spring semester of even numbered years. Students cannot receive credit for both CMSC-4713 and CMSC-5713.

### CMSC-5723: MACHINE LEARNING

Prerequisite: CMSC-5713. This course will investigate advance artificial intelligence problems and algorithms. Topics include knowledge, machine learning, perceptions, and natural language processing.

### CMSC-5733: SOFTWARE ENGINEERING PROJECTS I

Prerequisite: CMSC-5613.  
A project oriented class where the student will build software systems using software engineering processes. Topics include software tools, software teams, software engineering practices, software engineering design artifacts, software development, and testing.

### CMSC-5743: SOFTWARE ENGINEERING PROJECTS II

Prerequisite: CMSC-5733.  
A project oriented class where the student will build a software system on their own using software engineering processes. Topics include software tools, software teams, and software engineering.

### CMSC-5901: 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 one hour of credit. Prior permission of the computer science department is necessary for enrollment. 1 credit hour.

## ELECTRICAL ENGINEERING (ELEC)

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### 5123 COMMUNICATION SYSTEMS

Prerequisite: ELEC-3504 or equivalent Random Variables and Stochastic Processes. An introduction to electronic communication systems. Performance criteria, capacity analysis, modulation systems, coding methods, detection and synchronization, link analysis, comparative analysis of signals and systems. Lecture 2 hours; laboratory 3 hours. This course is normally offered in the spring semester.

### 5323 SEMICONDUCTOR DEVICES

Introduction to physics of semiconductor devices. Operation of fundamental electronic devices. Development of current-voltage relationships and linear circuit models. Students cannot receive credit for both ELEC-4323 and 5323.

### 5383 POWER SYSTEM ANALYSIS

Prerequisite: ELEC-3303 or equivalent. An introduction to basic power system topics. Major focus is on the steady-state modeling, analysis, and design of single and 3 phase power systems.

### 5393 POWER SYSTEM PROTECTION

Prerequisite: ELEC-3303 or equivalent. An introduction to basic power system protection. Major focus is on the steady-state modeling, analysis of balanced and unbalanced faults. The course will also focus on the systems and principles used to detect and interrupt faults on the power system.

### 5423 CONTROL SYSTEMS

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. Students cannot receive credit for both ELEC-4423 and ELEC-5423. This course is offered as needed.

### 5523 SOFTWARE ENGINEERING OF REAL-TIME SYSTEMS

Design and implementation of real-time embedded digital signal processing systems. DSP programming, real-time operating systems, parallel processing, host computer interfacing. Students cannot receive credit for both ELEC-4523 and ELEC-5523.

## ENGINEERING (ENGR)

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### 5003 FOUNDATIONS OF TECHNOLOGY ETHICS AND VALUES

Theories of technology ethics and values. Ethical theory from a Christian viewpoint. Impact of technology on society. Individual options and obligations for action. Case studies will be used to study a range of issues including environment, safety, honesty, organizational communication, quality control and product liability.

### 5013 FOUNDATIONS OF GRADUATE ENGINEERING MATHEMATICS

Prerequisite: Acceptance into the M.S.E. program. This is a graduate leveling class required of students possessing an undergraduate engineering (or equivalent), but lacking sufficient hours in advanced mathematics. This class provides a broad overview of the key areas of mathematics needed to successfully complete graduate engineering work. The course design aims at students already holding an undergraduate engineering degree (or equivalent), but lacking sufficient hours in advanced mathematics training for the M.S.E. program. Special topics that will be covered include ordinary differential equations, Laplace methods, Fourier methods, and functions of complex variables and linear systems.

### 5103 INNOVATION AND INVENTION

Innovation and invention and their relation to engineering in the workplace. Study of sources of innovative ideas such as surroundings. Understanding the patent process and managing intellectual property.

### 5113 RANDOM VARIABLES AND STOCHASTIC PROCESSES

Prerequisite: ENGR-5013 or equivalent. Provides a fundamental understanding of probabilistic methods in engineering and the essential mathematical methods for handling random processes. Includes the statistical properties of random variables, probabilistic transformations, and stationary and non-stationary random processes. Applications to estimation, hypothesis testing, response of systems to random inputs, estimation theory, decision theory, and queuing theory.

### 5203 SYSTEMS ENGINEERING

Principles and applications for design and engineering of complex technical systems: material will be a mix of lectures, case studies, and application to current industry systems. Topics include engineering systems terminology and methodology; creating innovative technical solutions; managing program requirements; resolving integration issues; effective communication; and, effective team, project, and program management.

### 5213 TOOLS OF OPERATIONS RESEARCH

This course will introduce the student to concepts, methods and an assortment of management tools available to the Operations Research / Management Science (OR/MS) practitioner. The course emphasizes an applied approach that begins with an emphasis on modeling and progresses to practical methods for linear and nonlinear programming, data

analysis, decision analysis, and simulation.

### 5223 SYSTEMS ENGINEERING MANAGEMENT

Principles and applications for systems engineering and management of complex technical systems; material will be a mix of lectures, case studies, and application to current industry systems. Topics include systems engineering terminology and process; managing program and design requirements; design reviews; organizational structures; program planning for large system projects; and effective team, project, and program management.

### 5323 FAILURE ANALYSIS OF ENGINEERING SYSTEMS

An investigation of engineering analysis techniques used to determine sources of design, system, and process failures. Multiple techniques applicable to many engineering disciplines are presented.

### 5710 PROJECT

Prerequisite: Consent of instructor. Individual or group projects involving design, verification, and report. 1-6 credit hours. May be repeated for credit, maximum 6.

### 5793 M.S.E. CAPSTONE

Investigation, by an individual student, on a focused engineering topic resulting in a mature literature survey and formal poster presentation. The student's topic is subject to faculty approval prior to enrollment in the course.

### 5901, 5902, 5903 GRADUATE ENGINEERING PRACTICUM

Provides up to three total hours of credit in association with completion of an acceptable engineering industry internship/practicum. Curricular Practical Training available for international students.

## FAMILY MINISTRY (FMIN)

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### 5033 SEMINAR IN SELECTED FAMILY MINISTRY TOPICS

The content of this course varies depending on the interests of the students and teacher. The course may be repeated as content varies.

### 5103 FAMILY LIFE MINISTRY

This course examines the design, development and delivery of a comprehensive ministry to families in the context of the local congregation. Attention will be given to the biblical basis for family ministry, barriers, and programming ideas. Students will learn to develop a ministry to families in the church and local community.

### 5303 APPLICATIONS OF FAMILY LIFE MINISTRY

This course addresses the practical implementation of a comprehensive preventative and therapeutic family life ministry. Students will explore methods, programs and the unique role of the family life minister. Congregational analysis from a systems perspective will be discussed. Case studies will be used.

### 5313 SYSTEMS THEORY IN MINISTRY

This graduate ministry course gives understanding of General Systems Theory principles that are applicable to local congregations and their families. Individuals, families, and congregations are sub-systems within larger systems. This course addresses the essential goal of a system – how to maintain organization in the face of change and how to alter the system in a healthy manner.

### 5503 MARRIAGE AND FAMILY DYNAMICS

This course focuses on the unique interactions within the family structure and how those dynamics change with the inclusion and loss of members, life events, stresses and other circumstances.

### 5543 MARRIAGE AND FAMILY THERAPY

This course studies the therapeutic process of diagnosing and treating marriages and families within the framework of Christian values. Students will learn how to utilize the principles and techniques of current therapies such as Strategic, Structural, and Bowen.

### 5913 FAMILY MINISTRY FIELD EDUCATION

Field education is designed to provide the student with a hands-on learning experience in a church or other ministry setting. This course is not simply a job, but a supervised on-the-job learning experience that stresses the application of lessons learned elsewhere in the program and the development of individually focused learning goals.

## FINANCE (FINC)

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### 5103 FINANCIAL SERVICES

The course covers both theoretical and mechanical considerations in the administration of the finance function of today's service-oriented industries.

### 5113 ADVANCED FINANCIAL MANAGEMENT

Prerequisite: FINC-5103. This course will be a comprehensive study of the financial tools and the skills needed by managers responsible for managing corporate financial holdings. The course objectives correspond to CFP educational requirements. Topics covered includes: Dividend Policy; Acquisition Venture Capital; Investment Banking; Long-term Debt and Leasing; Options

and Derivatives; International Financial Management; and Strategic and Operational Financial Planning. This course is normally offered in the summer.

### **5123 FINANCIAL PLANNING**

This course will be comprehensive in the study of the financial tools and the skills needed by today's managers in assisting clients to prepare insurance acquirment, home purchases, and other financial milestones. Course objectives correspond to CFP educational requirements and are included under the headings of General Principles of Financial Planning; Employee Benefits Planning; Income Tax Planning; Retirement Planning; and Estate Planning. These areas of study directly correspond to CFP educational requirements. This course is normally offered in the summer.

### **5133 RISK MANAGEMENT**

This course studies the tools and skills needed in assisting clients to prepare risk assessment of insurance needs and financial investing. Course objectives correspond to the CFP body of knowledge requirements. Topics covered include: Principles of Insurance; Analysis and Evaluation of Risk Exposure; Legal Aspect of Insurance; Insurance Coverage for Property and Casualty; Health, Life Disability Income; and Long-Term Care. Other topics cover Insurance Policy Selection and Policy Ownership Issues. This course is normally offered in the summer.

### **5143 INVESTMENTS**

This course studies the investing tools and skills needed by today's managers responsible for managing investments and various types of risk. Course topics correspond to CFP educational requirements. Course topics covered will include a study of types and use of investment vehicles, types of investment risks, measures of investment risks and returns, bond and stock valuation methods, formula investing, investing strategies, asset pricing models, hedging and option strategies, and tax issues of investment vehicles. This course is normally offered in the summer.

### **5153 INTERNATIONAL TRADE AND FINANCE**

This course is cross listed as meeting the requirements as an elective course for both International Business and Finance Tracks. The course curriculum emphasizes global trade and international finance covering global economics and current financial factors in the world, balance of trade, managing rate risk, structuring international transactions, and international capital markets. Same as INTL-5423. This course is normally offered in the summer.

### **5803 SPECIAL TOPICS**

This course will cover current topics not normally included in existing courses. The course may be used as a pilot course which may be added later to the curriculum. Repeat credit on each course may be earned with different subtitles assigned to that course.

### **5901 GRADUATE BUSINESS PRACTICUM IN FINANCE**

Prerequisite: Student must be in the finance emphasis.

This course provides one to three hours of credit in association with completion of an acceptable financial services industry internship/practicum. Students selecting this option will be responsible for locating an appropriate industry opportunity. This is an optional course and does not substitute for any leveling, core, or elective courses. The curriculum practical training course period extends through an entire semester.

## **GENERAL MINISTRY (GMIN)**

### **5003 MINISTRY IN CITIES AND SMALL TOWNS**

This course examines diverse aspects of the task of ministry within an increasingly urbanized world, both within the United States and abroad. Ministers face widely varying opportunities and demands, depending whether they are serving in a large city, a suburban situation, or a small town. Course readings, writing assignments, and field work will provide orientation as to how to research one's environment for ministry and devise appropriate strategies for enhancing the church's impact upon the surrounding community for the cause of Christ.

### **5013 CHRISTIAN SPIRITUAL FORMATION**

This course examines and explores the biblical, theological, historical, and practical applications of Christian spirituality. The presentation of this course intends to challenge and encourage students toward holiness and spiritual maturity. The content of the course promotes critical thinking, theological reflection, and contemplative thought. The format of the course requires individual as well as group activity in worship and in the practice of certain spiritual disciplines.

### **5023 CONGREGATIONAL LEADERSHIP**

This course will establish a biblical and theological framework for understanding congregational leadership, help students develop an awareness of their own leadership style and gifts, and develop practical skills for the exercise of leadership in the local church.

### **5043 ADULT LEARNING**

This course will help the student gain an overall understanding of the field of adult learning and education with a special emphasis on the context of religious education. The student will also be exposed to a variety of instructional methodologies as well as competencies expected of an adult educator.

### **5053 TEACHING THE BIBLE**

This course teaches students two things necessary to teach the Bible effectively. First,

students will learn how to use the basic principles of exegeting Scripture in order to determine what a biblical author originally intended to communicate to his audience. Second, students will learn how to prepare biblical lesson plans to teach to different learning styles so that the lesson will be both exegetically sound and effectively engage student learning.

### **5063 MANAGING CONFLICT, TRANSITION, AND CHANGE**

This course is designed to give students an introduction to the nature of conflict in marital, family and church family systems along with an understanding of their own conflict management techniques. The process of transition and change management will be explored as natural opportunities for both growth and conflict. Specific application will be made to the work of the family life minister.

### **5073 POLITICS AND POWER IN ISRAEL'S FIRST HISTORY DEUTERONOMY THROUGH 2 KINGS**

This course reviews the major developments in the study of Israel's first history beginning with Noth's proposal of a "Deuteronomistic History" and continuing on through more contemporary ideologically and ethnically constructed readings of Deuteronomy - 2 Kings texts. As such, the course is concerned with evaluating the politics in the telling and retelling of the history of a people. Specifically, this course takes a critical look of a Deuteronomistic "religious reform movement" lying behind the production of the history and the way in which the history seeks to color and characterize YHWH/God as well as the kings of Israel and Judah. Students in this course will be challenged to think theologically about the fusion of politics, economics, and religious "reform" movements in the casting and re-casting of the history of a people. Same as BIBL-5233

### **5113 THEOLOGY OF WORSHIP**

This course will examine the history of Christian worship as it has been embedded in various cultural forms, survey contemporary theologies of worship, and examine the Biblical evidence in the context of our own culture toward formation of the student's own theology of worship. Theological questions will function thematically in the course, such as: How should Christian worship reflect the person of God? How should Christian worship communicate to its host cultures? What makes Christian worship Christian? Same as THEO-5113.

### **5143 NON-CHRISTIAN RELIGIONS**

This course will examine several non-Christian religions in our culture that have either been attracting large numbers of followers in recent decades, such as Islam, Buddhism, and the New Age Movement, or otherwise have been exerting an influence in the culture itself through such avenues as alternative medicine and martial arts. Prominent doctrines and practices will be analyzed in terms of Christian discipleship, apologetics and evangelism. Same as THEO-5143.

### **5153 PHILOSOPHICAL THEOLOGY**

This course is designed to give students a solid introduction to current scholarly issues concerning the evidence for the existence of God and the rationality of Christian faith. The core of the course will be an examination of a superb presentation of the case for atheism and two uniquely powerful but very different cases in defense of Christian belief. The majority of classroom time will be spent in Socratic discussion of the assigned texts. Same as THEO-5153.

### **5233 ACTS AND MINISTRY FORMATION**

This course will familiarize the student with the message and theology of Acts and assist them in identifying patterns for the ministry of the universal church, the local congregation, and the individual minister. Students will learn how to communicate a theology for one's own ministry based on the book of Acts and evaluate contemporary culture in light of the message of Acts. Same as BIBL-5233.

### **5513 CONGREGATIONAL DEVELOPMENT AND ADMINISTRATION**

This course gives special attention to the minister's crucial role in church development in such areas as planning, organizing, motivating, leading, staffing, and nurturing volunteers. It also provides the overall introduction to the role of ministers and their work. The successful student will learn and demonstrate skills in preparing a strategic plan for a specific ministry.

### **5523 BIBLICAL AND CONTEMPORARY EVANGELISM**

Since evangelism is a vital part of ministry, this course will equip the student both to do evangelistic work in the local community and to provide information for organizing the local congregation to carry on such work.

### **5533 PREACHING AND COMMUNICATING SCRIPTURE**

This course provides study of and practice in making sermons biblical, interesting, practical, and significant. Students will do readings, have class lecture and discussion, prepare papers, analyze the preaching of others, and deliver three sermons in class to be videotaped and critiqued.

### **5563 DIRECTED RESEARCH**

This course provides students an opportunity to research and study important issues related to family life ministry, youth ministry, or general ministry. Offered as an independent study with permission of the student's advisor.

### **5743 COUNSELING FOR MINISTERS**

This course is designed to acquaint the student with many major issues of family life

confronted on a regular basis by church leaders. Appropriate theories, models and responses will be discussed. The course will explore the impact of family issues on the larger church family. This is a survey course intended to give an overview of many areas of discussion.

#### **5843 SPECIAL TOPICS IN MINISTRY**

The content of this course varies depending on the interests of the students and professor. Past special topics have included urban ministry, church growth and health, contemporary religious issues, and small groups. This course may be repeated as the content varies.

#### **5913 MINISTRY FIELD EDUCATION**

Field education is designed to provide the student with a hands-on learning experience in a church or other ministry setting. It is a supervised, on the job learning experience that stresses the application of lessons learned elsewhere in the program and the development of individually focused learning goals. The student will reflect upon and discuss lessons learned during the field education experience.

### **GREEK (GREK)**

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#### **5103 ELEMENTARY GREEK I**

An introduction to the basic grammar of Koine Greek. A translation of a simple gospel text in the first year will provide the immersion necessary for gaining facility in reading the Greek New Testament.

#### **5113 ELEMENTARY GREEK II**

A continuation of GREK-5103.

#### **5123 INTERMEDIATE GREEK**

Builds upon the foundation laid in GREK-5103 and 5113 to increase vocabulary and to increase the student's awareness of grammar and syntax. This course may count as a textual course in fulfilling biblical electives.

#### **5203 SELECTED NEW TESTAMENT GREEK READINGS**

Prerequisite: First year Greek.

This course helps the student develop the ability to read the Greek New Testament. Having translated a simple gospel text in first year Greek, students will explore other biblical genres and writing styles, expand their working vocabulary, and develop an understanding of grammatical and syntactical structures. This course may count as a textual course in fulfilling biblical electives.

#### **5213 SELECTED GREEK READINGS IN THE GOSPELS**

Prerequisite: First year Greek.

This course helps the student continue to develop the ability to read the Greek New Testament. This course exposes the student to more difficult Greek readings while continuing to expand vocabulary and to become familiar with grammatical and syntactical structures. This course may count as a textual course in fulfilling biblical electives.

### **HEALTH SERVICES MANAGEMENT (HSMT)**

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#### **5243 FOUNDATIONS OF INTEGRATED HEALTH CARE MANAGEMENT**

The course examines the organization and operations of health care systems in general. It covers the topics of board, management and medical staff roles and responsibilities; health care policy; financial management; contracting and negotiations; and insurance. This course is normally offered in the summer.

#### **5253 HOSPITAL MANAGEMENT**

This course covers operational issues of health care administration. It focuses on hospital operations, but other types of organizations are discussed. Primary emphasis is on planning, forecasting, scheduling, staffing, inventory, logistics, and quality control issues in hospitals. The course also covers public health and medical specialties requirements. This course is normally offered in the summer.

#### **5263 PRACTICE MANAGEMENT IN HEALTH CARE SYSTEMS**

This course emphasizes planning, implementation, and control in managing health care professional practices. It examines directing and training professional staff, legal, and organizational structures used in practice management groups, and the importance of patient satisfaction in health care practices. Financial issues related to practice management are also covered. This course is normally offered in the summer.

#### **5803 SPECIAL TOPICS**

This course will cover current topics not normally included in existing courses. The course may be used as a pilot course which may be added later to the curriculum. Repeat credit on each course may be earned with different subtitles assigned to that course.

#### **5901 GRADUATE BUSINESS PRACTICUM IN HEALTH SERVICE MANAGEMENT**

Prerequisite: Student must be in health care emphasis. This course provides one to three hours of credit in association with completion of an acceptable health service industry internship/practicum. Students selecting this option will be responsible for locating an appropriate industry opportunity. This is an optional course and does not substitute for any leveling, core, or elective courses. The curriculum practical training course period extends through an entire semester.

### **HEBREW (HBRW)**

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#### **5113 ELEMENTARY HEBREW I**

In this introduction to biblical Hebrew, the student will learn the fundamentals of the Hebrew language and begin simple readings in the Hebrew Bible.

#### **5123 ELEMENTARY HEBREW II**

A continuation of HBRW 5113, the second half of a two-semester course sequence that has as its ultimate goal an elementary grasp of biblical Hebrew and thus, a better understanding of the Hebrew scriptures. Specifically, by the end of this course, the student should be able to read most Hebrew narrative texts with the help of a lexicon, understand the fundamentals of Hebrew grammar and syntax, have a basic command of approximately 500 Hebrew words, use basic Hebrew tools with skill, and have fair proficiency in the exegesis of Hebrew texts.

#### **5213 INTERMEDIATE HEBREW I**

Prerequisite: HBRW-3113 and 3213 or HBRW-5113 and 5123 or equivalent Hebrew skills. A course in the translation of Hebrew narrative. The class will translate the Joseph Novella (Genesis 37-50) and possibly other narrative texts in the Hebrew Bible. This course may count as a textual course in fulfilling biblical electives.

### **HUMAN RESOURCES MANAGEMENT (HRMT)**

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#### **5663 HUMAN RESOURCE MANAGEMENT**

The course provides students with the basic principles and techniques of human resource management. The course takes a practical view that integrates the contributions of the behavioral sciences with technical aspects of implementing the Human Resource function in today's business environment. The class will cover the scope and content of the personnel function performed by the organization's HR department. This course is normally offered in the summer.

#### **5673 CORE HUMAN RESOURCES / COMPENSATION AND BENEFITS**

The purpose of this course is to delve into the individual's side of Human Resources within an organization. This will be accomplished by examining modern approaches to employee compensation and benefits, job design, recruitment and selection, and performance management with an emphasis on outcomes and metrics. This is designed to give company managers and executives at all levels a good understanding of the HR function within an organization in order to effectively achieve corporate goals. This course is normally offered in the summer.

#### **5683 STRATEGIC HUMAN RESOURCES/ORGANIZATIONAL DEVELOPMENT**

The purpose of this course is to focus on the strategic elements of the Human Resources function within an organization. This will be accomplished by examining key theories in organizational development, employee training and development, employment law and compliance, risk management and workforce planning. This course is designed to give managers and executives the tools to align their workforce with the strategic organizational goals. This course is normally offered in the summer.

#### **5901 GRADUATE BUSINESS PRACTICUM IN HUMAN RESOURCES**

Prerequisite: Student must be in the human resource management emphasis.

This course provides one to three hours of credit in association with completion of an acceptable human resources related internship/practicum. Students selecting this option will be responsible for locating an appropriate industry opportunity. This is an optional course and does not substitute for any leveling, core, or elective courses. The curriculum practical training course period extends through an entire semester.

### **INFORMATION SYSTEMS (INFO)**

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#### **5303 INFORMATION TECHNOLOGY AND THE FUTURE**

The course focuses on the preferred tools and techniques for collecting and evaluating information in an organization. Emphasis is placed on e-business and the future.

### **INTERNATIONAL BUSINESS (INTL)**

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#### **5413 INTERNATIONAL MANAGEMENT**

This course is a study of international perspective of organizational behavior and human resource management. The course addresses the typical organizational and managerial issues faced such as the balance between global integration and local responsiveness, the challenges of building good relationships between parent companies and foreign subsidiaries, and the factors of success for the career of the international manager. Emphasis is placed on the topic of national culture and its effects on international management. This course is normally offered in the summer.

#### **5423 INTERNATIONAL TRADE AND FINANCE**

This course is cross listed as meeting the requirements as an elective course for both International Business and Finance Tracks. The course curriculum emphasizes global trade and international finance covering global economics and current financial factors in the world, balance of trade, managing rate risk, structuring international transactions, and international capital markets. Same as FINC-5153. This course is normally offered in the summer.

### 5433 INTERNATIONAL MARKETING

This course features discussion of international marketing concepts and strategies, including organizational issues, international segmentation, and the influences of culture. Critical topics dealing with standardization versus adaptation, foreign mode of entry, distribution alliances and export marketing are part of the curriculum. The course will also address the cultural and regulatory nuances related with international advertising and promotion. Same as MKTG-5743. This course is normally offered in the summer.

## MANAGEMENT (MGMT)

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### 5603 ETHICS, DECISION MAKING AND COMMUNICATION

This course examines the basic ethical issues involved in the conduct of business from a biblical perspective. Critical thinking of organizations as a spiritual, social, moral, and ethical activity is explored, as well as the decision process. The way these decisions are communicated to others is studied.

### 5613 LEADERS, MANAGERS AND ENTREPRENEURS

The course examines how managers and leaders affect the behavioral social systems of work organizations. The entrepreneurial function is also studied.

### 5623 TEAM AND GROUP LEADERSHIP

This course examines leadership within organizational settings. Leadership dilemmas and issues relating to groups are analyzed. Emphasis is placed on enhancing team leadership in organizations. This course is normally offered in the summer.

### 5633 SYSTEMS DIAGNOSIS AND INTERVENTION TECHNIQUES

The course will focus on assessing the health-effectiveness of an organizational system and planning an intervention/change strategy that will increase the effectiveness of the organization. Specific attention will be given to the factors that need to be taken into consideration for those involved in the change process. This course is normally offered in the summer.

### 5643 ORGANIZATIONAL DEVELOPMENT AND DESIGN

This course will investigate the emerging field of organizational development-major theories and basic concepts on the nature of work. Discussion will focus on forces impacting individual, group, and system performance and productivity within complex socio-technical systems. This course is normally offered in the summer.

### 5653 STRATEGIC MANAGEMENT AND CHANGE

Prerequisite: Must have completed or concurrently enrolled in ACCT-5103 FINC-5103 and MKTG-5703.

This is the M.B.A. capstone course. As such, it should be the last course taken in the curriculum. The importance of integrating management functions and decision making will be emphasized. A case study approach is used.

### 5663 HUMAN RESOURCES MANAGEMENT

The course provides students with the basic principles and techniques of human resource management. The course takes a practical view that integrates the contributions of the behavioral sciences with technical aspects of implementing the HR function in today's business environment. The class will cover the scope and content of the personnel function performed by the organization's HR department. This course is normally offered in the summer.

### 5673 NON-PROFIT ORGANIZATION MANAGEMENT

This course will examine the many facets of nonprofit leadership and management of nonprofit organizations. Similarities and differences between nonprofit and for-profit will be explored. The course will place special emphasis on the importance of using appropriate business practices in managing a nonprofit organization. Topics of social entrepreneurship and volunteer management are included in this course. This course is normally offered in the summer.

### 5803 SPECIAL TOPICS

This course will cover current topics not normally included in existing courses. The course may be used as a pilot course which may be added later to the curriculum. Repeat credit on each course may be earned with different subtitles assigned to that course.

### 5901 GRADUATE BUSINESS PRACTICUM IN LEADERSHIP

Prerequisite: Student must be enrolled in management emphasis. This course provides one to three hours of credit in association with completion of an acceptable internship/practicum in leadership. Students selecting this option will be responsible for locating an appropriate industry opportunity. This is an optional course and does not substitute for any leveling, core, or elective courses. The curriculum practical training course period extends through an entire semester.

## MARKETING (MKTG)

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### 5703 MARKETING MANAGEMENT AND INNOVATION

Prerequisite: BUSA-5023 or equivalent.

The course focuses on integrating marketing management decisions with the mission of the entity as well as its specific financial objectives.

### 5733 MARKETING RESEARCH

This course will provide a basic understanding of approaches and methods of marketing research used by marketing managers and researchers to solve marketing problems. Areas of focus include survey methodologies and the application of statistical methods. This course is normally offered in the summer.

### 5743 INTERNATIONAL MARKETING

This course features discussion of international marketing concepts and strategies, including organizational issues, international segmentation, and the influence of culture. Critical topics dealing with standardization versus adaptation, foreign mode of entry, distribution alliances and export marketing are part of the curriculum. The course will also address the cultural and regulatory nuances related with international advertising and promotion. Same as INTL-5433. This course is normally offered in the summer.

### 5753 E-COMMERCE MARKETING AND MANAGEMENT

This course presents the concept of mass customization. The course is presented from the perspective of the e-commerce customer and examines the basic principles of marketing used to create the customer. It then focuses on the marketing mix necessary to keep the customer. Topics include one-to-one marketing, the virtual value chain, successes and failures of online marketers, and online surveys of websites. The course then shifts to the concepts of managing an e-commerce business. This course is normally offered in the summer.

### 5803 SPECIAL TOPICS

This course will cover current topics not normally included in existing courses. The course may be used as a pilot course which may be added later to the curriculum. Repeat credit on each course may be earned with different subtitles assigned to that course.

### 5901 GRADUATE BUSINESS PRACTICUM IN MARKETING

Prerequisite: Student must be in the marketing emphasis.

This course provides one to three hours of credit in association with completion of an acceptable marketing related internship/practicum. Students selecting this option will be responsible for locating an appropriate industry opportunity. This is an optional course and does not substitute for any leveling, core, or elective courses. The curriculum practical training course period extends through an entire semester.

## MATHEMATICS (MATH)

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### 5113 PROBABILITY AND STATISTICS I

Prerequisite: MATH 2314

Simple probability models, random variables, distribution functions, and discrete and continuous distributions. Students cannot receive credit for both MATH 4113 and MATH 5113.

### 5213 PROBABILITY AND STATISTICS II

Prerequisite: MATH-5113 or MATH-4113

Sampling, presentation of data, testing statistical hypotheses, estimating and testing variability and comparisons of populations. Students cannot receive credit for both MATH-4213 and MATH-5213.

### 5313 COMPLEX VARIABLES

Complex numbers, analytic functions, integration, series, contour integration, analytic continuation, multi-valued problems, conformal mapping, boundary value problems and integral transforms. Students cannot receive credit for both MATH-4313 and MATH-5313.

### 5313 LINEAR ALGEBRA

Prerequisite: Acceptance into the M.S.E. program. This is a graduate mathematics class designed for engineering students. Topics include matrices, systems of equations, vector spaces, linear transformations, orthogonality, and eigenvalues. Special attention will be given to engineering applications of these topics.

## MECHANICAL ENGINEERING (MECH)

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### 5113 MECHANICAL ENGINEERING APPLICATION OF PARTIAL DIFFERENTIAL EQUATIONS

Partial differential equations applications to common mechanical engineering problems. Parabolic, hyperbolic and elliptic equations. Analytical and numerical solution methods. Students cannot receive credit for both MECH-4113 and MECH-5313.

### 5143 FINITE DIFFERENCE METHODS

Ordinary and partial differential equation applications to common mechanical engineering problems. Review of analytical solutions, but emphasis on development and solution of numerical models.

### 5523 FINITE ELEMENT ANALYSIS

Prerequisite: MECH-4123 Machine Design or equivalent.

An introduction to the use of finite element methods for the analysis and design of mechanical systems. Emphasis will be placed on both structural and thermal scenarios. The course will start with an overview of 1 and 2-dimensional finite element theory and then progress to the use of commercial software for 3-dimensional analysis. Significant attention will be placed on the proper use of commercial finite element software in solving real-world

applications. Students cannot receive credit for both MECH-4523 and MECH-5523.

### **5623 ADVANCED ENGINEERING MATERIALS**

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-materials, and multifunctional materials such as shape-memory alloys. Special emphasis will be placed on material selection considerations for engineering design. Students cannot receive credit for both MECH-4623 and MECH-5623.

## **NON PROFIT MANAGEMENT (NPRO)**

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### **5313 NON PROFIT ORGANIZATION MANAGEMENT**

This is a foundations course and will examine the many facets of nonprofit leadership and management of nonprofit organizations. Similarities and differences between nonprofit and for-profit will be explored. The course will place special emphasis on the importance of using appropriate business practices in managing nonprofit organization. Topics of social entrepreneurship and volunteer management are introduced in this course. Same as MGMT-5673. This course is normally offered in the summer.

### **5323 NON PROFIT GOVERNANCE AND FINANCIAL OVERSIGHT**

This course examines the role of nonprofit governance boards for ensuring the organization serves its mission, maintains relevancy with the community and its constituencies, maintains financial sustainability, and oversees the direction and welfare of the organization itself. The course will cover topics related to the understanding and evaluating financial statements as they relate to measuring performance of the nonprofit organization as it relates to its mission and efficiency.

### **5333 NON PROFIT HUMAN RESOURCES MANAGEMENT**

This course explores the supervision and management of volunteers and staff in a nonprofit organization workforce setting. Applicable theories of motivation are compared for non-compensated workers. The course covers topics related to levels of volunteer expectations, along with the recruitment, training, development, evaluations, and retention of both volunteers and paid staff in the nonprofit environment.

## **THEOLOGY (THEO)**

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### **5003 CONTEMPORARY THEOLOGY**

Acquaints students with secular and religious thought that impacts contemporary life. The course gives attention to such areas as secular humanism, liberation theology, authoritarian religions, Eastern religions, cults, fundamentalism, and liberalism. Issues will be studied in light of biblical teachings.

### **5013 ETHICS**

This course surveys the history of Western theories about ethics and then engages in fairly detailed analysis of several important positions for current secular theorizing about ethical issues. This is followed by a detailed look at a seminal Christian critique of modern ethical theory and a significant work of constructive New Testament ethics.

### **5023 SYSTEMATIC THEOLOGY**

A topical or "systematic" study of Christian doctrines, arranged by the classical theological categories (anthropology, pneumatology/ethics, ecclesiology, eschatology, Christology, soteriology, and theology proper). Special attention will also be given to hermeneutics and contemporary theologies such as liberation thought, critical theory, process thought and liturgical theology.

### **5033 SEMINAR IN SELECTED THEOLOGY TOPICS**

The content of this course varies depending on the interests of the students and professor. The course may be repeated as content varies.

### **5113 THEOLOGY OF WORSHIP**

This course will examine the history of Christian worship as it has been embedded in various cultural forms, survey contemporary theologies of worship, and examine the Biblical evidence in the context of our own culture toward formation of the student's own theology of worship. Theological questions will function thematically in the course, such as: How should Christian worship reflect the person of God? How should Christian worship communicate to its host cultures? What makes Christian worship Christian? Same as GMIN-5113.

### **5143 NON-CHRISTIAN RELIGIONS**

This course will examine several non-Christian religions in our culture that have either been attracting large numbers of followers in recent decades, such as Islam, Buddhism, and the New Age Movement, or otherwise have been exerting an influence in the culture itself through such avenues as alternative medicine and martial arts. Prominent doctrines and practices will be analyzed in terms of Christian discipleship, apologetics and evangelism. Same as GMIN-5143.

### **5153 PHILOSOPHICAL THEOLOGY**

This course is designed to give students a solid introduction to current scholarly issues concerning the evidence for the existence of God and the rationality of Christian faith. The core of the course will be an examination of a superb presentation of the case for atheism and two uniquely powerful but very different cases in defense of Christian belief. The majority of classroom time will be spent in Socratic discussion of the assigned texts. Same as GMIN-5153.

### **5563 DIRECTED RESEARCH**

This course provides students an opportunity to research and study important issues related to theology. Offered as an independent study with permission of the student's advisor.

### **5853 THEOLOGY FOR MINISTRY**

Prerequisites: Two of CHST-5003, CHST-5013, and THEO-5003

This course is a study of the theological bases for the primary activities of ministry in various contexts, including preaching, youth, and family ministry. Attention will be given to the minister's spiritual preparation for ministry and to the theology that grounds and shapes worship, counseling, evangelism, care for those physically or spiritually weak and for the dying and grieving, and care for the poor.

## **YOUTH MINISTRY (YTMN)**

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### **5103 ADOLESCENT CULTURE**

Learned behavior is transmitted through culture. Culture is an influential teacher and culture can set the norms for acceptable behavior and paint a picture of what one should look like. It is extremely important to know and be involved in the world of adolescents if one wishes to be an influence. This course introduces students to a study of present-day North American culture in which church and non-church adolescents exist. The course gives attention to the context of music, media, dress, values, norms, philosophy, peers, family, and school as they engage adolescents in our culture.

### **5163 ADOLESCENT PHYSICAL AND SPIRITUAL DEVELOPMENT**

This class will address issues in adolescent development from a life span perspective within the contexts of American adolescents. Students will discuss theories, examples, case studies, data, and clinical and field research methods that have been applied to human growth and development. The course will emphasize practical application of the course material through small group interaction, class participation, research projects, lectures, and class presentations.

### **5203 TEACHING ADOLESCENTS**

This course introduces the student to curriculum, concepts and principles in the field of Christian education, specifically as it applies to teaching adolescents in a church setting. Theory and practice will be explored in secular education sources as well as those available in Christian sources. Application will follow.

### **5913 YOUTH MINISTRY FIELD EDUCATION**

Field education is designed to provide the student with a hands-on learning experience in a church or other ministry setting. This course is not simply a job, but a supervised on-the-job learning experience that stresses the application of lessons learned elsewhere in the program and the development of individually focused learning goals.

# CALENDAR

## 2016 FALL SEMESTER

|                |                  |   |
|----------------|------------------|---|
| August 25      | Tuesday          | Residence halls open  |
| August 29      | Monday           | Term I (7 & 8 Week) classes begin                                     |
| September 2    | Friday           | Last day to add Term I classes  |
| September 2    | Friday           | Last day to drop Term I classes without a "W" on transcript           |
| October 7      | Friday           | Last day to drop Term I classes with a "W" on transcript or withdraw  |
| October 10-13  | Monday-Thursday  | Term I (7 Week) final exam week                                       |
| October 17-20  | Monday-Thursday  | Term I (8 Week) final exam week                                       |
| October 17-21  | Monday-Friday    | Between term break (7 Week classes only)                              |
| October 18     | Tuesday          | Term I final grades due at noon                                       |
| October 24     | Monday           | Term II (7 & 8 Week) classes begin                                    |
| October 25     | Tuesday          | Term I (8 Week) final grades due at noon                              |
| October 28     | Friday           | Last day to add Term II classes                                       |
| October 28     | Friday           | Last day to drop Term II classes without a "W" on transcript          |
| October 31     | Monday           | Graduate student pre-enrollment, myOC                                 |
| November 21-25 | Monday-Friday    | Fall Break (7 Week classes only), no classes                          |
| November 23-25 | Wednesday-Friday | Thanksgiving Break, no classes, offices closed                        |
| December 9     | Friday           | Last day to drop Term II classes with a "W" on transcript or withdraw |
| December 12-15 | Monday-Thursday  | Term II (7 & 8 Week) final exam week                                  |
| December 16    | Friday           | Commencement  |
| December 17    | Saturday         | Residence halls close   |
| December 20    | Tuesday          | Term II (7 & 8 Week) final grades due at noon                         |

## 2017 SPRING SEMESTER

|                     |                 |   |
|---------------------|-----------------|---|
| January 9           | Saturday        | Residence halls open  |
| January 9           | Monday          | Term I (7 & 8 Week) classes begin                                     |
| January 13          | Friday          | Last day to add Term I classes  |
| January 13          | Friday          | Last day to drop Term I classes without a "W" on transcript           |
| January 16          | Monday          | Martin Luther King Holiday, no classes, offices closed                |
| February 17         | Friday          | Last day to drop Term I classes with a "W" on transcript or withdraw  |
| February 20-23      | Monday-Thursday | Term I (7 Week) final exam week                                       |
| February 27-March 2 | Monday-Thursday | Term I (8 Week) final exam week                                       |
| February 27-March 3 | Monday-Friday   | Between term break (7 Week classes only)                              |
| February 28         | Tuesday         | Term I (7 Week) final grades due at noon                              |
| March 6             | Monday          | Term II (7 & 8 Week) classes begin                                    |
| March 7             | Tuesday         | Term I (8 Week) final grades due at noon                              |
| March 10            | Friday          | Last day to add Term II classes                                       |
| March 10            | Friday          | Last day to drop Term II classes without a "W" on transcript          |
| March 12-17         | Monday-Friday   | Spring Break  |
| March 27            | Monday          | Graduate student pre-enrollment, myOC                                 |
| April 21            | Friday          | Last day to drop Term II classes with a "W" on transcript or withdraw |
| April 24-27         | Monday-Thursday | Term II (7 & 8 Week) final exam week                                  |
| April 28            | Friday          | Commencement  |
| April 29            | Saturday        | Residence halls close   |
| May 2               | Tuesday         | Term II (7 & 8 Week) final grades due at noon                         |

## 2017 SUMMER SEMESTER

|              |                 |   |
|--------------|-----------------|---|
| May 8        | Monday          | Term I (7 & 8 Week) classes begin                                     |
| May 12       | Friday          | Last day to add Term I classes  |
| May 12       | Friday          | Last day to drop Term I classes without a "W" on transcript           |
| June 16      | Friday          | Last day to drop Term I classes with a "W" on transcript or withdraw  |
| June 19-22   | Monday-Thursday | Term I final exam week  |
| June 26-30   | Monday-Friday   | Between term break (7 Week classes only)                              |
| June 27      | Tuesday         | Term I (7 Week) final grades due at noon                              |
| July 3       | Tuesday         | Term II classes begin   |
| July 3       | Tuesday         | Term I (8 Week) final grades due at noon                              |
| July 4       | Monday          | Independent Day holiday, no classes, offices closed                   |
| July 7       | Friday          | Last day to drop Term II classes without a "W" on transcript          |
| July 7       | Friday          | Last day to add Term II classes                                       |
| August 11    | Friday          | Last day to drop Term II classes with a "W" on transcript or withdraw |
| August 14-17 | Monday-Thursday | Term II (7 Week) final exam week                                      |
| August 18    | Friday          | Commencement  |
| August 21-24 | Monday-Thursday | Term II (8 Week) final exam week                                      |
| August 22    | Tuesday         | Term II (7 Week) final grades due at noon                             |
| August 29    | Tuesday         | Term II (8 Week) final grades due at noon                             |