

## 2021-2022 <br> GRADUATE ACADEMIC CATALOG

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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 a 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,


John deSteiguer

| Mark A. Brewer, Ph.D. | Richard Blankenship, D.V.M. | Kevin Lawrence | Curt Shumard |
| :---: | :---: | :---: | :---: |
| Chair | Edmond, Oklahoma | Jones, Oklahoma | Berkeley Lake, Georgia |
| Arcadia, Oklahoma |  |  |  |
|  | Jeff Bonney, C.P.A. | H. Richard Lawson | Dwayne D. Simmons, Ph.D. |
| David Duncan, D.Min. | Edmond, Oklahoma | Dallas, Texas | Waco, Texas |
| Vice Chair |  |  |  |
| Katy, Texas | Alfred Branch, M.B.A. | Dewey Leggett | Jeanetta Sims, Ph.D. |
|  | Oklahoma City, Oklahoma | Fairview, Texas | Edmond, Oklahoma |
| Don Millican |  |  |  |
| Treasurer | Tip Burch | Susan Mattocks | Gary Smith |
| Immediate Past Chair | Tulsa, Oklahoma | Edmond, Oklahoma | Humble, Texas |
| Broken Arrow, Oklahoma |  |  |  |
|  | Marc Compton | Lynn V. Mitchell, M.D. | Michelle Stephens, J.D. |
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| Secretary |  |  |  |
| Edmond, Oklahoma | Robert Edison | Grant W. Newton, Ph.D. | Michelle Tucker, M.D. |
|  | Dallas, Texas | Medford, Oregon | Plano, Texas |
| Kerry Barnes |  |  |  |
| Vancouver, Washington | Michelle Eggleston, J.D. | Kenneth L. Parker | Raymond L. Vaughn, Jr., J.D. |
|  | Amarillo, Texas | Noble, Oklahoma | Mounds, Oklahoma |
| Matt Bell |  |  |  |
| Houston, Texas | Wes Gotcher | Lana Reynolds | Michael Walker, Ed.D., J.D. |
|  | Midland, Texas | Seminole, Oklahoma | Kennedale, Texas |
| Warren Blakney |  |  |  |
| Tulsa, Oklahoma |  |  | Greg Wedel |
|  |  |  | Edmond, Oklahoma |

## LIFE TRUSTEES

| Karl H. Berg <br> Wichita, Kansas | G. LaMoine Neal Oklahoma City, Oklahoma | Mark A. Stansberry |
| :--- | :--- | :--- |
| Daryl J. Bond | Hardeman Nichols | Edmond, Oklahoma |
| Yukon, Oklahoma | Dallas, Texas | Thomas J. Trimble, J.D. |
| Ken Davidson | Millie Prince Roberson | Scottsdale, Arizona |
| Yukon, Oklahoma | Norman, Oklahoma | Wayne L. Warren |
| James L. Ketcherside | Jack Rowe | Broken Bow, Oklahoma |
| McPherson, Kansas | Edmond, Oklahoma |  |

## OFFICERS

| John deSteiguer (2002) | Brandon Tatum (2020) |
| :--- | :--- |
| President | Chief Strategy Officer |
| B.A., Northeastern State University | B.A., Abilene Christian University |
| J.D., Pepperdine University | M.L.A., Abilene Christian University |
| Kent Allen (2008) | Ed.D., Abilene Christian University |
| Chief of Staff | Neil Arter (1990) |
| Chief Advancement Officer | Chief Student Life Officer |
| B.S., Oklahoma Christian University | Dean of Students |
|  | B.S., Oklahoma Christian University |
| Stephen Eck (2000) | M.B.A., Oklahoma Christian University |
| Chief Legal Officer | Stephanie Baird (2010) |
| A.A., York College | University Registrar |
| B.A., Oklahoma Christian University | Chair, Graduate School of Business |
| M.B.A., MidAmerica Nazarene University | Assistant Professor |
| J.D., Oklahoma City University | B.A., Flagler College |
|  | M.Ed., lowa State University |
| John Hermes (1993) | M.B.A., Oklahoma Christian University |
| Chief Operating Officer | Ph.D., Oklahoma State University |
| B.S., Oklahoma Christian University |  |
| M.S., Oklahoma State University |  |
| Jeffrey McCormack (2014) |  |
| Chief Academic Officer |  |
| Lawson Professor of Microbiology and Immunology |  |
| B.S., Oklahoma Christian University |  |
| M.S., University of Oklahoma Health Sciences Center |  |
| Ph.D., University of Oklahoma Health Sciences Center |  |

Byron Newberry (2001)
Associate Chief Academic Officer for Accreditation and Institutional Effectiveness
Chair, Division and School of Engineering and Computer Science
Chair, Graduate School 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
Jennifer Ray, C.P.A. (2016)
Chief Financial Officer
B.B.A., Oklahoma Christian University

Virginia Smith (2021)
Associate Chief Academic Officer for Student Success
Assistant Professor
B.S., Oklahoma State University
M.B.A., Oklahoma Christian University

Ed.D., Oklahoma State University
Terry Winn (2014)
Chief Human Resources Officer
B.A., Northwestern Oklahoma State University
M.A., University of Oklahoma

## Jim Baird (1992)

Distinguished Professor of Bible and Philosophy
B.A., Oklahoma Christian University
M.Div., Harding Graduate School
D.Phil. (Oxon.), Oxford University

2001 Gaylord Chair of Distinguished Teaching
Stephanie Baird (2010)
University Registrar
Chair, Graduate School of Business
Assistant Professor
B.A., Flagler College
M.Ed., Iowa State University
M.B.A., Oklahoma Christian University

Ph.D., Oklahoma State University

## Alden Bass (2017)

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

Ph.D., St. Louis University
Kenneth S. Bell (2011)
Assistant Professor of Electrical and Computer Engineering
B.S., University of Connecticut
M.S., University of Connecticut

## Jeffrey Bigelow (1994)

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

Ph.D., University of Illinois at Urbana
Jennifer Bryan (2003)
Program Chair, Mathematics
Professor Mathematics
B.S., Oklahoma Christian University
M.S., Oklahoma State University

Ph.D., Oklahoma State University
Bradley S. Buxton (2014)
Assistant Professor of Mechanical Engineering
B.S., Embry-Riddle Aeronautical University
M.S., Troy State University
M.S., Air Force Institute of Technology

David Cassel (1995)
Professor of Mechanical Engineering
B.S.M.E., Louisiana Tech University
M.S.M.E., Louisiana Tech University

Ph.D., Georgia Institute of Technology
Dudley Chancey (1998)
Professor of Youth Ministry
A.A., Albany Junior College
B.S., Tennessee Technological University
M.S., Abilene Christian University

Ph.D., University of Tennessee
Curtis Coleman (2018)
Assistant Professor of Computer Science
B.S., California State University
M.S., Norwich University

Ph.D. Candidate, Nova Southeastern University
Donald V. Drew (2000)
Professor of Business
B.A., Oklahoma Christian University
M.H.R., University of Oklahoma

Ed.D., Oklahoma State University
James Dvorak (2008)
Chair, Division of Bible, Graduate School of Theology
Professor of Bible
B.A., Oklahoma Christian University
M.Div., Trinity Evangelical Divinity School
M.A., George Washington University

Ph.D., McMaster Divinity College

## Bill Goad (1979)

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

Ed.D., Oklahoma State University
Jennifer Gray (2015)
Dean, College of Professional Studies
Professor of Nursing
B.S.N., Central State University
M.S.N., University of Texas at Arlington

Ph.D., Texas Woman's 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
Paul Howard (2002)
Professor of Mathematics
B.S., University of Idaho
M.S., University of Idaho

Ph.D., University of Oklahoma
Elaine Kelly (1992)
Associate Professor of Accounting
B.S., East Central University
M.B.A., University of Central Oklahoma

1999 Gaylord Chair of Distinguished Teaching
2006 JJ Millican Chair of Accounting
Bobby Kern (2012)
Associate Professor of Psychology and Family Science
B.S., Oklahoma Christian University
M.A., Oklahoma Christian University

Ph.D., Oklahoma State University
Sada J. Knowles (2020)
Dean, New College
Assistant Professor
B.S., Oklahoma Christian University
M.S., Oklahoma State University

Ph.D., Oklahoma State University
Chip Kooi (2001)
Professor of Bible
B.A., Oklahoma Christian University
M.A., Oklahoma Christian University

Ph.D., Baylor University
Donald Leftwich (1979)
Associate Professor of Mathematics and Computer Science
B.S., Oklahoma Christian University
M.A., University of Oklahoma

Fang Li (2022)
Assistant Professor of Computer Science
B.A., Henan University
M.S., University of Central Oklahoma

Ph.D. candidate, University of Texas at Dallas
David Lowry (2005)
Professor of Communication
B.S., Abilene Christian University
M.S., Abilene Christian University

Ph.D., University of North Texas
Steven P. Maher (2002)
Associate Professor of Electrical and Computer Engineering
B.S.E.E., University of Kansas
M.S.E.E., University of Kansas

## Jeffrey McCormack (2014)

Chief Academic Officer
Lawson Professor of Microbiology and Immunology
B.S., Oklahoma Christian University
M.S., University of Oklahoma Health Sciences Center

Ph.D., University of Oklahoma Health Sciences Center
Wes McKinzie (2017)
Assistant Professor of Business
B.S., Oklahoma Christian University
M.A., University of Oklahoma

Kimberly Merritt (2007)
Professor of Business
B.S., Oklahoma State University
M.B.A., Cameron University
D.B.A., Argosy University

Jonathan Miller (2019)
Associate Professor of Psychology and Family Science
B.S., David Lipscomb University
M.S., Abilene Christian University

Ph.D., Bowling Green State University
Byron Newberry (2001)
Associate Chief Academic Officer for Accreditation and
Institutional Effectiveness
Chair, Division and School of Engineering and Computer
Science
Chair, Graduate School 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

## Ryan Newell (1992)

Professor of Psychology and Family Science
A.A., Ohio Valley College
B.S., Oklahoma Christian University
M.Ed., University of Central Oklahoma

Ph.D., University of Toledo
Robert Nix (2015)
Associate Professor of Computer Science
B.S., Oklahoma Christian University
M.S., The University of Texas at Dallas

Ph.D., The University of Texas at Dallas
David North (2015)
Program Chair, Computer Science
Associate Professor of Computer Science
B.S., Oklahoma Christian University
M.S., University of Oklahoma

John Osborne (2000)
Director, International Programs
Assistant Professor of Communication
B.S., Oklahoma Christian University
M.B.A., Oklahoma Christian University

Kevin Plumlee (2012)
Program Chair, Mechanical Engineering
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M.S., Texas A\&M University

Ph.D., Texas A\&M University
Jillian Poyzer-Johnson (2020)
Assistant Professor of Accounting
B.B.A., Oklahoma Christian University
M.Acc., University of Nebraska, Omaha

Billie McConnell (2021)
Program Chair, School of Education
Associate Professor of Education
B.S.Ed., Abilene Christian University
M.S., University of North Texas

Ed.D., Pepperdine University

Charles Rix (2011)
Dean, College of Humanities and Bible
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
Kelly Roberts (2021)
Chair, Graduate School of Human Sciences
Associate Professor of Psychology and Family Science
B.A., University of Central Oklahoma
M.S., Oklahoma State University

Ph.D., Oklahoma State University

## Kerianne Roper (2004)

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

2020 Gaylord Chair of Distinguished Teaching
Chris Rosser (2009)
Associate Professor of Library Science
Theological Librarian
B.S., Oklahoma Christian University
M.L.I.S., University of Oklahoma
M.Div., Oklahoma Christian University

Brian Simmons (2014)
Chair, Division of Language, Literature and Communication
Professor of Communication and Honors
B.S., Oklahoma Christian College
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Ph.D., Purdue University
2018 Gaylord Chair of Distinguished Teaching
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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 Computer Science
B.S., University of Oklahoma
M.S., Colorado State University

2017 Gaylord Chair of Distinguished Teaching
Virginia Smith (2021)
Associate Chief Academic Officer for Student Success
Assistant Professor
B.S., Oklahoma State University
M.B.A., Oklahoma Christian University

Ed.D., Oklahoma State University

Grant Testut (2011)
Associate Professor of Bible
B.A., David Lipscomb University
M.Ph., Hebrew Union College

Ph.D., Hebrew Union College
David Waldo (1996)
Professor of Electrical and Computer Engineering
B.S., Texas A\&M University

Ph.D., Drexel University

## Joe Watson (1989)

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

Debra Whiteman (2015)
Assistant Professor of Mechanical Engineering
B.S.M.E., Oklahoma Christian University
M.S.E., Oklahoma Christian University

Tina Winn (2010)
Chair, Division of Education and Behavioral \& Social Sciences
Professor of Psychology and Family Science
B.S., Oklahoma Christian University
M.Ed., Northwestern State University

Ed.D., Oklahoma State University

## OC AT A GLANCE

Oklahoma Christian University ( $\mathrm{OC} \mathrm{)} \mathrm{is} \mathrm{a} \mathrm{higher} \mathrm{learning} \mathrm{community} \mathrm{that}$ 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. OC is affiliated with the churches of Christ, but students of all faiths are most welcome. The University enrolls approximately 350 graduate students.

## GRADUATE DEGREES

OC offers the following graduate degrees:
Master of Accountancy (M.Acc.)
Master of Arts in Biblical and Theological Studies (M.A.B.T.S.)
Master of Arts in Christianity and Culture (M.A.C.\&C.)
Master of Arts in Leadership (M.A.L.)
Master of Business Administration (M.B.A.)
Master of Divinity (M.Div.)
Master of Education (M.Ed.)
Master of Science in Computer Science (M.S.C.S.)
Master of Science in Engineering (M.S.E.)
Master of Science in Human Science (M.S.H.S.)

## ACCREDITATION

Oklahoma Christian is accredited by the Higher Learning Commission.
230 South LaSalle Street, Ste. 7-500
Chicago, Illinois 60604-1413
Phone: 800-621-7440 | 312-263-0456 | Fax: 312-263-7462
www.hlcommission.org | info@hlcommission.org

## Additional Accreditations

The graduate business programs are accredited by the Accreditation Council for Business Schools and Programs (ACBSP).
11520 WEst 119th Street
Overland Park, KS 66213
Phone: 913-339-9356 | Fax: 913-339-6226
www.acbsp.org |info@acbsp.org
The M.A.B.T.S., M.A.C.\&C., and M.Div. degrees in the Graduate School of Theology are accredited by the Association of Theological Services (ATS). 10 Summit Park
Pittsburg, PA 15275-1110
Phone: 412-788-6505 | Fax: 412-788-6510
www.ats.edu | 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 Educational Amendments of 1972, Sections 503 and 504 of The Rehabilitation Act of 1973, the Americans With Disabilities Act of 1990, the Family and Medical Leave Act of 1993, the Civil Rights Act of 1999, and other Federal Laws and Regulations, Oklahoma Christian University does not discriminate on the basis of race, color, national origin, sex, age, handicap, disability, or status as a veteran in any of its policies, practices, or procedures; this includes but is not limited to admissions, employment, financial aid, and educational services. The designated coordinator is Ms. Lisa Herndon, at (405) 425-5555, 2501 E. Memorial Road, Edmond, Oklahoma 73013.

This catalog contains official announcements of courses for the 2021-2022 academic year. OC reserves the right to repeal, change, or amend the rules, regulations, and provisions contained in this catalog and may withdraw or modify the programs and courses described. OC reserves the right to change fees, modify services, or change its program should economic conditions, national emergency, or other force majeure make it necessary to do so. Fees, tuition, programs, courses, course content, instructors, and university policies and regulations are subject to change without notice.

## PURPOSE/MISSION STATEMENT

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

## STANDARDS

At OC, graduate programs require a higher caliber of student work that is characterized by:

1. Advanced mastery of the discipline's knowledge, methodology, and skills,
2. A deep understanding and application of the theory of the discipline,
3. Independent thinking and work,
4. Integration or advancement of the current literature or state of the art of the discipline through theoretical or professional research, and
5. Effective communication in the discipline.

## CONVERGE

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

## Active Faith

Graduates of OC's graduate programs demonstrate an understanding of the ethical standards of a Christian worldview and the ability to apply those standards.

## Mastery of Knowledge

Graduates of OC's graduate programs demonstrate:

1. Advanced mastery of the discipline's knowledge, methodology, and skills and
2. A deep understanding and application of the theory of the discipline.

## Information Skills

Graduates of OC's graduate programs demonstrate the ability to do theoretical and/or professional research that integrates the current literature and/or state of the art of the discipline.

## Structured Reasoning

Graduates of OC's graduate programs are able to apply the theory and knowledge of the discipline in structured ways to solve real-life situations or problems.

## Critical and Creative Thinking

Graduates of OC's graduate programs are able to advance the state of the discipline by creating and/or applying solutions in a variety of situations after a comprehensive and critical exploration of options, issues, ideas, publications, artifacts, and events.

## Effective Communication

Graduates of OC's graduate programs are able to communicate at high levels of effectiveness and professionalism using the oral, written, graphical, and interpersonal means appropriate to their discipline.

## Personal, Social, and Global Stewardship

Graduates of OC's graduate programs are able to:

1. Demonstrate self-initiative and assume personal responsibility for their work and results,
2. Use their professional knowledge and skills to make a positive impact on their profession and the world, and
3. Demonstrate compassion and respect for all worldviews and cultures.

## ETHOS / SPIRITUAL LIFE

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

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

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

## Chapel

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

## Devotionals

In addition to the required spiritual formation of the Ethos program, there are many other voluntary devotionals and Bible studies around campus during the week. This includes a university-wide devotional every Monday evening at 10:00 pm in Scott Chapel. These times provide inspirational worship and a deep sense of community.

## Local Churches

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

## Missions

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

## OKLAHOMA CITY

Oklahoma City offers jobs, entertainment, cultural events, and restaurants typical of a major city. The Oklahoma City Zoo, 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 are all in the metropolitan area, which has a population of approximately one million people.

## LIBRARY

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 email or phone.

## OTHER

## 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 pingpong 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 Heritage Plaza.

## Campus Police

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

## Calling and Career Services

The OC Calling and Career Office offers students assistance in exploring career options and in finding part-time and full-time employment. The Calling and Career 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.

## TUITION, FEES AND REFUND POLICY, 2021-2022

## PROGRAM

Business
Communication \& Leadership
Education
Engineering \& Computer Science
Human Sciences
Theology

## TUITION

\$585/credit hour
\$400/credit hour \$333/credit hour \$585/credit hour \$550/credit hour \$550/credit hour

Discounts and scholarships are available for graduate theology students.

## FEES

Additive Lab Fee (engineering) - \$150
Finance Fee (per finance course) - $\$ 45$
Graduation Fee (all programs) - \$100
M.S.C.S. Lab Fee (three Cyber Security labs) - \$100/lab

International students are required to purchase student health insurance each year. The annual cost for 2021-2022 is $\$ 1,585$.

## Adding/Dropping a Class

To add or drop a class, a student should see the academic advisor who will approve the class electronically or may sign a Change in Enrollment Form and forward that form to registrar@oc.edu.

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

- Week 1-100\% refund will be made
- Week 2-50\% refund will be made
- After Week 2 - 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
- After Day 2 - 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, $O C$ 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.

## FINANCIAL AID AND 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 at www.fafsa.gov. For additional information, contact the Student Financial Services Office at $405-425-5190$. Work opportunities are readily available in the Oklahoma City area and a large number of $O C$ graduate students work in area businesses. As a private university, OC does not charge out-of-state tuition.

## Veterans Programs

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

## ADMISSION POLICIES

OC 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 OC 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 OC's graduate programs:

1. Admission to a degree program
2. Provisional or probationary admission
3. Special (non-degree seeking) admission
4. Admission to audit a course

## INTERNATIONAL STUDENTS

OC welcomes students from all over the world to make OC their educational home. International students are welcome to apply to OC's graduate programs.

To be considered for admission, an international student must complete the following steps:

- Submit a completed application for admission to the academic program of choice.
- Submit a $\$ 25$ non-refundable admission fee.
- See individual program admission requirements for additional requirements.
- Submit OC's Financial Worksheet and OC's Statement of Understanding.
- Submit financial documentation as required by the U.S. Immigration and Naturalization Service and as shown on the OC Financial Worksheet for your graduate program.
- Submit an official copy of transcripts for all degrees received with a certified course by course evaluation in English from a credential evaluation service that is a member of NACES or AICE (e.g. World Education Services [WES] or Educational Credential Evaluators [ECE]). Evaluations from other credential evaluation services will only be accepted if approved by the faculty chair of the graduate program. The chair may accept transcripts in English without a certified evaluation from countries or universities with whom OC has an established relationship.
- Submit a copy of the student's passport photo page and all U.S. Immigration documents received.
- After receiving an admission letter, students who are transferring their SEVIS Record to OC must ask their current U.S. university to complete and send OC's SEVIS Transfer Form and transfer their SEVIS Record to OC in order to be issued an OC I-20.

Graduate applicants whose primary language is not English or who have not completed a degree from a university where the primary instruction is in English must demonstrate competency in English in one of the following ways:

## Standardized Testing:

1. TOEFL
a. 79 IBT TOEFL or higher for the Graduate School of Theology, Graduate School of Human Sciences, Graduate School of Communication and Leadership, and Graduate School of Business programs.
b. 61 IBT TOEFL or higher for the Graduate School of Education and Graduate School of Engineering and Computer Science programs.
2. IELTS
a. 6.5 or higher for the Graduate School of Theology, Graduate School of Human Sciences, Graduate School of Communication and Leadership, and Graduate School of Business programs.
b. 6.0 or higher for the Graduate School of Education and Graduate School of Engineering and Computer Science programs.
3. PTE
a. 58 or higher for the Graduate School of Theology, Graduate School of Human Sciences, Graduate School of Communication and Leadership, and Graduate School of Business programs.
b. 50 or higher for the Graduate School of Education and Graduate School of Engineering and Computer Science programs.
4. Other English language proficiency test scores will only be accepted upon approval by the chair of the graduate school of program. If a different English language proficiency test score is accepted, the score must be equivalent to those required for the tests listed above.

For more details about demonstrating English competency for admission into OC's graduate programs, students should consult with their advisor.

## ACADEMIC POLICIES

## ACADEMIC LOAD

Students generally may not enroll in more than 12 graduate hours per regular semester. A combined load of undergraduate and graduate credit hours shall not exceed 15 hours.

A full-time student is defined as one who is enrolled in nine or more graduate hours in a regular semester.

Students enrolled in the M.A.C.\&C. program can be eligible for federal direct loans at half-time enrollment.

## 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. 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 division or program chair's permission to enroll in graduate engineering courses. Note: This policy does not apply to students admitted to an undergraduate/graduate dual degree program.

## 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 time a student's semester GPA falls below a 3.0, they will be placed on probation.

The second time a student's semester GPA is below a 3.0 , they will be suspended from the graduate program unless the student has a 3.0 or higher cumulative GPA, in which case they will be allowed to continue on probation.

The third time a student's semester GPA falls below a 3.0, they will be suspended from the graduate program regardless of their cumulative GPA.

## TIME LIMIT FOR DEGREE

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

## LEAVE OF ABSENCE

Graduate students (including VA students who must leave OC to complete service requirements or because they are called to active duty) may request a leave of absence during fall, spring, and/or summer semesters. A Leave of Absence Request Form must be completed and submitted to the appropriate chair before the semester in which the leave is taken. (The exception to this timing is for VA students, who should submit the Leave of Absence Request Form to the Registrar as soon as they realize that a leave of absence is necessary.) If, at the end of the leave of absence period, the student does not return, the student's participation in the program will be terminated. Application for readmission will be required if the student wishes to return. Time spent in a leave of absence does not count toward the time limit for degree.

## FINAL EXAMS

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

## PROCTORED EXAMS

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

## Choosing A Proctor

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

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


## Who Cannot Be a Proctor

- Relative or spouse
- Co-worker, business associate, or supervisor
- Friend or peer
- Coach
- Another Oklahoma Christian University student


## Exam Proctoring Expectations

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


## After Finding a Proctor

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


## GRADING SYSTEM

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/semester hour)
- B: Average level of achievement (3 grade points/semester hour)
- C: Below average level of achievement (2 grade points/semester hour)
- $\quad$ : Failure (0 grade points/semester hour)
- I: Incomplete (0 grade points/semester hour)
- W: See drop schedule for withdrawal dates (0 grade points; does not count against grade point average)

Note: Graduate programs at OC do not issue " D " grades.
Other Grades which may be awarded:

- P: "Passing" grade in a course that does not give a letter grade.
- P*: "Passing" grade awarded for credit by exam.


## 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 "l" grade to an "F" grade.

## REPEATING COURSES

A student should consult with their academic advisor before repeating a course in which they have 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.

## POLICY ON ACADEMIC HONESTY <br> Cheating

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

## Plagiarism

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

## PENALTIES FOR ACADEMIC DISHONESTY

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

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

At either the first or second offense, the student may appeal using the process set forth for grade appeals. If a student commits offenses in two or more courses, the Academic Appeals Committee may assign penalties for academic dishonesty in addition to the penalties assigned by the professors in the courses. The Committee may assign penalties up to and including suspension from the University.

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

## STUDENT COMPLAINT SYSTEM AT OC

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

## GRADE APPEALS

Any student may appeal a final grade received in a course. To assure due process and protect the rights of both the student and the professor, the appeals procedure below must be followed. Except by this process, no studentappealed 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 graderelated issue must contact the professor in writing to explain the concern or complaint. If the student does not bring the matter to the professor's attention within four weeks of the final grade report, the student loses the right of appeal. The professor has two weeks to respond in writing to the student's appeal.

## Step 2 - Appeal to the Chair

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

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

## Step 3 - Appeal to the Dean

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

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

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

## Step 4 - Appeal to the Academic Appeals Committee

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

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

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

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

## FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

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

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

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

## Directory Information

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

## DROP AND ADD PROCEDURES

## Dropping a Class

To drop a class, you must contact your advisor 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 Semester

- Cannot add after the 1 st 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 your advisor of your academic program.

## Credit By Practicum

You may receive credit by practicum with the approval of your program chair. Professors will assign a regular grade in a course on the basis of your work, contact with you during the practicum, oral reports, research papers, and/or feedback from your employer.

You should take the initiative to find a practicum opportunity and have it approved by the program chair before the start of the practicum. Arrangements for periodic progress checks should be made with the program chair.

Agreements for practicums must note the number of credit hours the student will earn, as well as the workload requirements. Specific requirements may be required by your academic program, once the practicum is approved. Program chairs must consider the University's Assignment of Semester Credit Hours in determining practicum work requirements and the number of credits awarded. This document is publicly available on the website at https://www.oc.edu/uploads/images/AssignmentofSemesterCreditHours.pdf.

## STUDENTS AND VA BENEFITS

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

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

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

## 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.

## 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:

## Graduation Term/Date

Fall - November 19, 2021
Spring - April 29, 2022

## Application Deadline

Friday, October 15, 2021
Friday, March 18, 2022

Students who fail to apply for graduation by the deadline will not be permitted to participate in commencement. Students will be charged a $\$ 100$ graduation fee in the expected semester of graduation.
COLLEGE OF HUMANITIES AND BIBLE. ..... 13
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Trauma-Informed Family Support (Certificate)
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on (M.Ed.) Computer Science Instruction (M.Ed.)
Curriculum and Instruction - Blended Learning (M.Ed.)
Curriculum and Instruction - Social Emotional Learning (M.Ed.)
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Church Leadership (M.A.L.)
Global Leadership (M.A.L.)Non-Profit Leadership (M.A.L.)

Organizational Leadership (M.A.L.)
Peacemaking and Social Justice (Certificate)
COLLEGE OF PROFESSIONAL STUDIES. ..... 37
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Graduate School of Business. ..... 38Digital Marketing (Certificate)
Finance (M.B.A.)
Financial Management (Certificate)
General Business (M.B.A.)
Human Resources (Certificate, M.B.A.)
International Business (M.B.A.)
Leadership (Certificate)
Leadership and Organizational Development (M.B.A.)
Marketing (M.B.A.)
Project Management (Certificate, M.B.A.)
Division of Engineering and Computer Science ..... 50
Graduate School of Engineering and Computer Science. ..... 50
Artificial Intelligence (M.S.C.S.)
Cybersecurity (M.S.C.S.)
Data Science (M.S.C.S.)
Engineering (M.S.E.)

# COLLEGE OF HUMANITIES AND BIBLE 

Division of Bible
Graduate School of Theology
Division of Education and Behavioral and Social Sciences
Graduate School of Human Sciences Graduate School of Education

Division of Language, Literature and Communication
Graduate School of Communication and Leadership

# DIVISION OF BIBLE <br> GRADUATE SCHOOL OF THEOLOGY 

## MISSION STATEMENT

The Graduate School of Theology (GST) in the Division of Bible seeks to fulfill the mission of OC to transform lives for Christian faith, scholarship, and service. The GST provides rigorous training for the intellectual and spiritual development of persons seeking a life of ministry within the church, academy, and the world.

## AREAS OF STUDY

Bible (BIBL)
Culture (CLTR)
General Ministry (GMIN)
Guided Studies/Ministry (GUID)
Theology (THEO)

## DEGREES OFFERED

M.A.B.T.S. Degree in Biblical and Theological Studies
M.A.C.\&C. Degree in Christianity and Culture
M.Div.

Degree in Divinity

## FACULTY

Jim Baird, D.Phil., Distinguished Professor of Bible and Philosophy
Alden Bass, Ph.D., Assistant Professor of Bible
Dudley Chancey, Ph.D., Professor of Youth Ministry
James Dvorak, Ph.D., Chair, Division of Bible; Chair, Graduate School of Theology; Professor of Bible
John Harrison, Ph.D., Professor of New Testament and Ministry
Chip Kooi, Ph.D., Professor of Bible
Charles Rix, Ph.D., Dean, College of Humanities and Bible; Professor of Bible
Chris Rosser, M.Div., Associate Professor of Library Science; Theological Librarian
Grant Testut, Ph.D., Associate Professor of Bible

## LOCATION

Williams Branch Center for Biblical Studies

## DEAN

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

## SUMMARY OF DEGREE PROGRAMS

The GST offers three graduate degree programs.
The Master of Arts in Biblical and Theological Studies (M.A.B.T.S.) degree is designed for the student who desires to pursue additional scholarly training, such as a Ph.D., upon completion of the degree. The degree requires the completion of 48 credit hours: 33 hours of interdisciplinary coursework and 15 hours of faculty-mentored, guided research and thesis.

The Master of Arts in Christianity and Culture (M.A.C.\&C.) degree is a fully online, 36 credit hour program. The purpose of the M.A.C.\&C. is to form biblical knowledge, theological aptitude, and cultural awareness among church leaders and volunteers so that they are able both to articulate and practice Christian values as they engage in meaningful ways with the church and contemporary society.

The Master of Divinity (M.Div.) degree is the foundational degree in theological education. It provides the student with broad training in biblical studies, history and theology, and practical ministry skills that equip the student to serve a church well as a minister in a church, chaplaincy, or parachurch context. The M. Div. degree requires the completion of 73 credit hours. After completing a series of core courses, students enter into a time of guided study mentored by a faculty member. During this guided study, students focus on areas of ministry, textual study, and theology that complements core learning. Along with guided study, students will also participate in mentored ministry activities. These
mentored ministry activities will provide hands-on, practical training in at least three areas of ministry. The capstone event in the M.Div. degree program is a comprehensive examination in which the student demonstrates their ability to integrate graduate level biblical studies, theology, and ministry skills in response to a case study.

## REQUIREMENTS FOR DEGREE-SEEKING APPLICANTS

## Pre-application requirements are as follows:

- Completed application with a $\$ 25$ non-refundable application fee.
- Bachelor's degree from a regionally accredited U.S. institution or a nationally recognized university outside the U.S.
- Essay describing personal and/or ministerial goals and reasons for wanting to pursue graduate studies in OC's GST (minimum of 2 pages, double spaced).
- Official transcripts for all degrees received.
- Official transcripts for any courses not listed in the degree transcripts that might be relevant to the degree program (if such transcripts are not submitted, leveling courses may be required).
- A 3.0 cumulative undergraduate grade point average.
- Demonstrated English proficiency (non-native English speakers only). Please see page 8 of the catalog for information about the English proficiency requirement.
- For International students, please see page 8 of the catalog for information about requirements for international students.


## Additional Items to be submitted for consideration:

- Three Letters of Reference:
- 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).
- One letter from a person in a ministry position, e.g., preacher or elder.
- One letter from any non-familial source.

Applicants with an undergraduate GPA of less than 3.0 may be admitted on probation. 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 GST programs.

## 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 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 Humanities and Bible must be obtained to enroll in coursework beyond this limit. Special students must meet the same pre-admission requirements as degree-seekingstudents (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.
- Bachelor's degree from a regionally-accredited U.S. institution.
- Official transcripts for all degrees received.
- 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 a written application for graduation in the

Registrar's Office during the first two weeks of the semester in which they plan to graduate. M.Div. students must also meet with the GST program director during this same time to schedule the comprehensive examination.

## Distance Learning Courses

All courses are offered entirely online and can be completed through distance learning. No courses in the M.A.C.\&C. degree program are offered in an oncampus or in-person format. Guided Studies and Mentored Ministry courses in the M.A.B.T.S. and M.Div. degree programs will be administered online.

## Transfer Credit

There is no automatic transfer of credit toward degree requirements. Work accepted for credit must be approved by the chairperson of the graduate degree. No work with a grade of less than " $B$ " will be considered to meet program requirements. Normally, no more than nine credit hours may be used to fulfill degree requirements for the M.A.B.T.S. and M.A.C.\&C. degrees and no more than 33 transfer hours may be applied toward the M.Div degree.

## Fast Forward Program

Students enrolled in the GST may earn advanced standing credit, called fast forward credit, for qualifying undergraduate courses taken at OC. Up to $25 \%$ of the M.Div degree may be earned through fast forward credit. GST students may earn fast forward credits up to two years after graduating from OC with any bachelor's degree. Please contact the GST office for a complete list of qualifying undergraduate courses and requirements for earning fast forward credits for these courses.

## M.A.B.T.S. DEGREE

48 HOURS

Students must demonstrate an intermediate level of competency in either Greek or Hebrew as demonstrated by proficiency exam or a grade of "B" or better in Intermediate Hebrew or Intermediate Greek. Students without demonstrated proficiency will be required to seek additional training until such mastery can be demonstrated.

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

1. Demonstrate the ability to analyze, 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 to their area of interest.

24 HOURS FOUNDATION
BIBL-542
BIBL-560
BIBL-5613
BIBL-5633
CLTR-5013
CLTR-5613
THEO-5003
THEO-5043

## 9 HOURS ELECTIVES CHOSEN FROM

BIBL-5433
CLTR-502
CLTR-5033
CLTR-5043
CLTR-5103
Cultural Anthropology
Contemporary Theology

Christianity and the Arts
Sacred Times and Spaces

History of the Bible and Its Interpretation Introduction to Old Testament Theologies Introduction to New Testament Theologies Reading the Bible: Assumptions, Traditions, and Methods
Secularization and Christianity

Introduction to Biblical and Theological Research

Reading the Bible After the Shoah (Holocaust)
Bible and Classical Literature

Science, Culture, and Christianity

CLTR-5113 Cultures of Second Temple Judaism and Early Christianity
CLTR-5123 Roman Caesars vs. Christian Lord
CLTR-5133 Kingdom of God: Core Values of Jesus and the Early Church
THEO-5133

9 HOURS GUIDED STUDY CHOSEN FROM COMBINATION OF
GUID-5003 Guided Studies (3 hours)*
GUID-5006
Guided Studies (6 hours)*
6 HOURS THESIS
BIBL-5713
Thesis I
BIBL-5723
Thesis II
*Note: These courses may be repeated as needed in preparation for final thesis presentation/defense.

## M.A.C.\&C. DEGREE

36 HOURS*

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

1. Summarize the history and sociocultural significance of the Bible.
2. Compare and contrast the major paradigms in contemporary biblical interpretation.
3. Explore biblical and theological themes that define the Kingdom of God and its core values and what it means to live under the reign of God.
4. Describe significant features/characteristics/ideologies/values of contemporary cultures.
5. Describe significant features/characteristics/ideologies/values of the sociocultural world of the Bible.
6. Develop biblically and theologically informed, practical strategies to help the church address contemporary social/cultural issues.

## 27 HOURS FOUNDATION

BIBL-5423
BIBL-5603
BIBL-5613
BIBL-5633
CLTR-5013
CLTR-5613
CLTR-5753
THEO-5003
THEO-5043

History of the Bible and Its Interpretation Introduction to Old Testament Theologies Introduction to New Testament Theologies Reading the Bible: Assumptions, Traditions, and Methods
Secularization and Christianity
Cultural Anthropology
Capstone
Contemporary Theology
Introduction to Biblical and Theological Research

## 9 HOURS ELECTIVES CHOSEN FROM

BIBL-5433
CLTR-5023
CLTR-5033
CLTR-5043
CLTR-5103
CLTR-5113
CLTR-5123
CLTR-5133
THEO-5133
Christianity and the Arts
Sacred Times and Spaces

Reading the Bible After the Shoah (Holocaust)
Bible and Classical Literature

Science, Culture, and Christianity
Cultures of Second Temple Judaism and Early Christianity
Roman Caesars vs. Christian Lord
Kingdom of God: Core Values of Jesus and the Early Church
Christian Evidences for Ministry
M.DIV. DEGREE

73 HOURS

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.

## 24 HOURS FOUNDATION

BIBL-5423 History of the Bible and Its Interpretation
BIBL-5603 Introduction to Old Testament Theologies
BIBL-5613 Introduction to New Testament Theologies
BIBL-5633 Reading the Bible: Assumptions, Traditions, and Methods
CLTR-5013 Secularization and Christianity
CLTR-5613 Cultural Anthropology
THEO-5003 Contemporary Theology
THEO-5043 Introduction to Biblical and Theological Research

## 9 HOURS ELECTIVES CHOSEN FROM

BIBL-5433
Reading the Bible After the Shoah (Holocaust)
CLTR-5023 Bible and Classical Literature
CLTR-5033 Christianity and the Arts
CLTR-5043
CLTR-5113
CLTR-5123
CLTR-5133
THEO-5133

Sacred Times and Spaces
Cultures of Second Temple Judaism and Early Christianity
Roman Caesars vs. Christian Lord
Kingdom of God: Core Values of Jesus and the Early Church Christian Evidences for Ministry

21 HOURS GUIDED STUDIES CHOSEN FROM COMBINATION OF
GUID-5003 Guided Studies (3 hours)*

GUID-5006 Guided Studies (6 hours)*

## 18 HOURS GUIDED MINISTRY EXPERIENCE

| GUID-5913 | Mentored Ministry Experience (3 hours)* |
| :--- | :--- |
| GUID-5916 | Mentored Ministry Experience (6 hours)* |

## 1 HOUR COMPREHENSIVE EXAM

COMP-5901 Comprehensive Examination
The capstone event for the M.Div. candidate is a comprehensive examination in which the student demonstrates the ability to integrate graduate level biblical studies and ministry skills. The comprehensive examination includes a written response to a case study, an oral presentation related to the case study, and an oral defense before an examining committee.
*These courses may be repeated as necessary as the student progresses toward the completion of the degree.

# DIVISION OF EDUCATION AND BEHAVIORAL \& SOCIAL SCIENCES GRADUATE SCHOOL OF HUMAN SCIENCES 

## MISSION STATEMENT

Building on the University's mission to transform lives for Christian faith, scholarship, and service, it is the mission of the graduate program in human sciences to employ the scientific study of families and close interpersonal relationships to prepare graduates to support health development and to offer primary, secondary, and tertiary services to families and individuals of all ages and a broad diversity of backgrounds/cultures.

The program will accomplish this mission with a learning environment that fosters an inclusive atmosphere valuing the collective and individual talents, skills, and perspectives of our learning and service communities in order to foster a culture of belonging, collaborative practice, innovation, and mutual respect.

## AREAS OF STUDY

Family Life Education (FLED)
Human Sciences (HMSC)
Marriage and Family Therapy (MFTH)

## DEGREES OFFERED

M.S.H.S. Degree with an Emphasis in Family Life Education
M.S.H.S. Degree with an Emphasis in Marriage and Family Therapy

## CERTIFICATES OFFERED

Trauma-Informed Family Support

## FACULTY

Bobby Kern, Ph.D., Associate Professor of Psychology and Family Science Jonathan Miller, Ph.D., Associate Professor of Psychology and Family Science
Ryan Newell, Ph.D., Professor of Psychology and Family Science
Kelly Roberts, Program Director, Graduate School of Human Sciences;
Associate Professor of Psychology and Family Science
Tina Winn, Ed.D., Chair, Division of Education and Behavioral \& Social Sciences; Professor of Psychology and Family Science

## LOCATION

Davisson American Heritage

## DEAN

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

## SUMMARY OF DEGREE PROGRAMS

The structure of the Master of Science in Human Sciences (M.S.H.S.) degree is grounded in systems theory and evidence-based practice, integrates a biopsychosocial-spiritual perspective, and provides opportunities for skill development through professional application and personal reflection.

## REQUIREMENTS FOR DEGREE-SEEKING APPLICANTS

Pre-application requirements are as follows:

- Completed application with a $\$ 25$ non-refundable application fee.
- Bachelor's degree from a regionally accredited U.S. institution or a nationally recognized university outside the U.S.
- Personal Statement (2-3 pages that explains how the candidate's background/experience influences their desire to pursue an M.S.H.S. in their chosen area of emphasis and how their degree will assist them in meeting their personal and professional goals).
- Resume or CV
- Official transcripts for all degrees received.
- Official transcripts for any courses not listed in the degree transcript
that might be relevant to the degree program (if such transcripts are not submitted, leveling courses may be required).
- An undergraduate or graduate-level behavioral sciences statistics course is a prerequisite for admission or must be completed during the first semester of graduate coursework.
- A 3.0 cumulative undergraduate grade point average.
- Demonstrated English proficiency (non-native English speakers only). Please see page 8 of the catalog for information about the English proficiency requirement.
- For International students, please see page 8 of the catalog for information about requirements for international students.


## Additional Items to be submitted for consideration:

- Three academic or professional letters of reference.

Applicants with an undergraduate GPA of less than 3.0 may be admitted on probation with the following provisions:

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 M.S.H.S. program director to discuss the results of the writing assessment and must complete any remedial work (if needed) as assigned by the program director. \{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 Human Sciences programs.

## 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 Humanities and Bible 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.
- Bachelor's degree from a regionally-accredited U.S. institution.
- Official transcripts for all degrees received.
- International students must meet the English proficiency requirement for the Graduate School of Human Sciences 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 HUMAN SCIENCES

## Graduation

Candidates for degrees must make a written application for graduation in the Registrar's Office during the first two weeks of the semester in which they plan to graduate and must also meet with the program director during this same time to schedule the comprehensive examination.

## Distance Learning Courses

Graduate credit through distance learning is available from OC 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 chairperson of the graduate degree. No work with a grade of less than " $B$ " will be considered to meet program requirements. Normally, no more than nine credit hours may be used to fulfill degree requirements for the M.S.H.S. degree program.

## M.S.H.S. DEGREE WITH AN EMPHASIS IN FAMILY LIFE EDUCATION

39 HOURS

A graduate with the M.S.H.S. degree with an emphasis in Family Life Education will:

1. Critically examine and apply family systems theory models to family life education programming for diverse client populations.
2. Apply legal and ethical standards relevant to the practice of Family Life Education.
3. Provide evidence-based and culturally relevant service that incorporates individual, systemic, and relational theories applied across the life-span within the context of a Christian worldview.
4. Understand and apply the key themes, concepts, and principles of the 10 content areas of Family Life Education.
5. Apply quantitative and qualitative research and program evaluation methodologies relevant to Family Life Education.
6. Create unique Family Life Education programming applicable to diverse client populations that employ evidence-based models, instructional methodologies, and techniques that support promotion of education outcomes specific to that program.

| 18 HOURS HUMAN SCIENCES FOUNDATION |  |
| :--- | :--- |
| HMSC-5013 | Systems Theory |
| HMSC-5023 | Family Trauma and Resilience |
| HMSC-5033 | Development and Diversity Across the Lifespan |
| HMSC-5043 | Sexuality and the Family |
| HMSC-5053 | Ethical and Legal Issues in the Human Sciences |
| HMSC-5063 | Research Methods in Human Sciences |
|  |  |
| 15 HOURS FAMILY LIFE EDUCATION |  |
| FMLE-5013 | Issues in Family Science |
| FMLE-5023 | Parenting and Relationship Education |

FMLE-5033 Family Resource Management
FMLE-5043 Family Policy and Advocacy
FMLE-5053 Program Design, Implementation, and Evaluation

## 6 HOURS PRACTICUM OR THESIS

FMLE-5713 Family Life Education Thesis I
FMLE-5723 Family Life Education Thesis II
FMLE-5913 Family Life Education Practicum I
FMLE-5923 Family Life Education Practicum II

## M.S.H.S. DEGREE WITH AN EMPHASIS IN MARRIAGE AND FAMILY THERAPY

45 HOURS

A graduate with the M.S.H.S. degree with an emphasis in Marriage and Family Therapy will:

1. Articulate and implement a family systems model of therapy and theory of change applicable to a diverse client population.
2. Conduct clinical assessment and diagnosis that is grounded in systems theory and integrates a biopsychosocial-spiritual perspective.
3. Develop effective treatment plans for a diverse client population that employs evidence-based models, modalities, and techniques that support progression of therapy toward meeting treatment goals.
4. Provide evidence-based and culturally responsive treatment that incorporates individual, systemic, and relational theories applied across the life-span within the context of a Christian worldview.
5. Apply legal and ethical standards relevant to the clinical practice of marriage and family therapy.
6. Apply quantitative and qualitative research and program evaluation methodologies relevant to marriage and family therapy and mental health services.

| 18 HOURS HUMAN SCIENCES FOUNDATION | MFTH-5023 |  |
| :--- | :--- | :--- |
| HMSC-5013 | Systems Theory | MFTH-5033 |
| HMSC-5023 | Family Trauma and Resilience | MFTH-5043 |
| HMSC-5033 | Development and Diversity Across the Lifespan | MFTH-5053 |
| HMSC-5043 | Sexuality and the Family | MFTH-5063 |
| HMSC-5053 | Ethical and Legal Issues in the Human Sciences |  |
| HMSC-5063 | Research Methods in Human Sciences | MFTH-5713 |
|  |  | MFTH-5723 |
| 27 HOURS MARRIAGE AND FAMILY THERAPY | MFTH-5793 |  |
| MFTH-5013 | Theoretical Models of the Family |  |

[^0]MFTH-5013 Theoretical Models of the Family

## GRADUATE SCHOOL OF HUMAN SCIENCES CERTIFICATES

9 HOURS TRAUMA-INFORMED FAMILY SUPPORT CERTIFICATE
HMSC-5023
Family Trauma and Resilience
FMLE-5023
Parenting and Relationship Education MFTH-5023

Basic Therapy Skills


## AREAS OF STUDY

Education (EDUC)

## DEGREES OFFERED

M.Ed. Degree in Computer Science Instruction
M.Ed. Degree in Curriculum and Instruction with an Emphasis in Blended Learning
M.Ed. Degree in Curriculum and Instruction with an Emphasis in Social Emotional Learning
M.Ed. Degree in Curriculum and Instruction with an Emphasis in Teaching English Learners
M.Ed. Degree in Curriculum and Instruction with an Emphasis in Teaching Students With Disabilities

All M.Ed. degrees in Curriculum and Instruction are non-licensure.

## FACULTY

Billie McConnell, Ed.D., Program Chair, School of Education; Associate Professor of Education

## LOCATION

Davisson American Heritage

## DEAN

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

## ADMISSION TO THE GRADUATE SCHOOL OF EDUCATION

REQUIREMENTS FOR DEGREE-SEEKING APPLICANTS
Pre-application requirements are as follows:

- Completed application with a $\$ 25$ non-refundable application fee.
- Bachelor's degree from a regionally accredited U.S. institution or a nationally recognized university outside of the U.S.
- Official transcripts for all degrees received.
- Official transcripts for any courses not listed in the degree transcript that might be relevant to the degree program (if such transcripts are not submitted, leveling courses may be required).
- A 2.75 cumulative undergraduate grade point average.
- Demonstrated English proficiency (non-native English speakers only). Please see page 8 of the Graduate Academic Catalog for information about the English proficiency requirement.
- For international students, please see page 8 of the Graduate Academic Catalog for information about requirements for international students.

Applicants with an undergraduate GPA of less than 2.75 may be admitted on probation. The applicant must complete one semester of graduate coursework with a cumulative GPA of 3.0 or higher. Successful completion of these requirements will lift the student's probationary status and allow them to continue in Graduate School of Education programs.

## 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 <br> 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 New College 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.
- Bachelor's degree from a regionally-accredited U.S. institution.
- Official transcripts for all degrees received.
- International students must meet the English competency requirement for all graduate programs. (This information can be found on page 8 of the Graduate Academic Catalog.)

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 EDUCATION Graduation

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

## Transfer Credit

There is no automatic transfer of credit toward degree requirements. Work accepted for credit must be approved by the chairperson of the graduate degree. No more than nine transfer hours may be used toward degree requirements and no work with less than "B" will be approved for transfer.

A graduate with the Master of Education (M.Ed.) degree will hold knowledge and skills in the following areas:

1. The Learner and Learning
a. Learner Development: The teacher understands how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.
b. Learning Differences: The teacher uses understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.
c. Learning Environments: The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self-motivation.
2. Content
a. Content Knowledge: The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) they teach and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.
b. Application of Content: The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.
3. Instructional Practice
a. Assessment: The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and the learner's decision making.
b. Planning for Instruction: The teacher plans instruction and supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.
c. Instructional Strategies: The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.
4. Professional Responsibility
a. Professional Learning and Ethical Practice: The teacher engages in ongoing professional learning and uses evidence to continually evaluate their practice, particularly the effects of their choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.
b. Leadership and Collaboration: The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

## 18 HOURS EDUCATION FOUNDATION

EDUC-5003 Foundations of Instruction
EDUC-5043 Foundations of Learning Recovery
EDUC-5053 Foundations of Student-Centered Learning
EDUC-5063 Foundations of Addressing Student Well-Being
EDUC-5073
EDUC-5083

Foundations of Classroom Culture
Foundations of Teacher Leadership

9 HOURS COMPUTER SCIENCE INSTRUCTION
EDUC-5153 Computing and Society
EDUC-5163 Computational Thinking
EDUC-5173 Computing Systems and Basic Programming
3 HOURS CAPSTONE
EDUC-5793 Capstone Project

## M.ED. DEGREE IN CURRICULUM AND INSTRUCTION WITH AN EMPHASIS IN

 BLENDED LEARNING - 30 HOURSA graduate with the Master of Education (M.Ed.) degree will hold knowledge and skills in the following areas:

1. The Learner and Learning
a. Learner Development: The teacher understands how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.
b. Learning Differences: The teacher uses understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.
c. Learning Environments: The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self-motivation.
2. Content
a. Content Knowledge: The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) they teach and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.
b. Application of Content: The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.
3. Instructional Practice
a. Assessment: The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and the learner's decision making.
b. Planning for Instruction: The teacher plans instruction and supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.
c. Instructional Strategies: The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.
4. Professional Responsibility
a. Professional Learning and Ethical Practice: The teacher engages in ongoing professional learning and uses evidence to continually evaluate their practice, particularly the effects of their choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.
b. Leadership and Collaboration: The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

## 18 HOURS EDUCATION FOUNDATION

EDUC-5003 Foundations of Instruction
EDUC-5043 Foundations of Learning Recovery
EDUC-5053 Foundations of Student-Centered Learning
EDUC-5063 Foundations of Addressing Student Well-Being
EDUC-5073
EDUC-5083

Foundations of Classroom Culture
Foundations of Teacher Leadership

| 9 HOURS BLENDED LEARNING |  |
| :--- | :--- |
| EDUC-5183 | Foundations for Blended Learning |
| EDUC-5193 | Establishing Systems to Support Blended Learning |
| EDUC-5203 | Advanced Strategies for Blended Learning |
|  |  |
| 3 HOURS CAPSTONE  <br> EDUC-5793  <br>  Capstone Project |  |

## RNING

Foundations for Blended Learning
EDUC-5193 Establishing Systems to Support Blended Learning

3 HOURS CAPSTONE
EDUC-5793 Capstone Project
M.ED. DEGREE IN CURRICULUM AND INSTRUCTION WITH AN EMPHASIS IN SOCIAL EMOTIONAL LEARNING - 30 HOURS

A graduate with the Master of Education (M.Ed.) degree will hold knowledge and skills in the following areas:

1. The Learner and Learning
a. Learner Development: The teacher understands how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.
b. Learning Differences: The teacher uses understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.
c. Learning Environments: The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self-motivation.
2. Content
a. Content Knowledge: The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) they teach and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.
b. Application of Content: The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.
3. Instructional Practice
a. Assessment: The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and the learner's decision making.
b. Planning for Instruction: The teacher plans instruction and supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.
c. Instructional Strategies: The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.
4. Professional Responsibility
a. Professional Learning and Ethical Practice: The teacher engages in ongoing professional learning and uses evidence to continually evaluate their practice, particularly the effects of their choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.
b. Leadership and Collaboration: The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

## 18 HOURS EDUCATION FOUNDATION

EDUC-5003 Foundations of Instruction
EDUC-5043 Foundations of Learning Recovery
EDUC-5053 Foundations of Student-Centered Learning
EDUC-5063
EDUC-5073
EDUC-5083

Foundations of Addressing Student Well-Being
Foundations of Classroom Culture
Foundations of Teacher Leadership

## 9 HOURS SOCIAL EMOTIONAL LEARNING

EDUC-5213 Establishing Social Emotional Learning Practices
EDUC-5223 Expanding Social Emotional Learning Practices
EDUC-5233 Sustaining and Evaluating Social Emotional Learning Practices
3 HOURS CAPSTONE
EDUC-5793 Capstone Project

## M.ED. DEGREE IN CURRICULUM AND INSTRUCTION WITH AN EMPHASIS IN

 TEACHING ENGLISH LEARNERS - 30 HOURSA graduate with the Master of Education (M.Ed.) degree will hold knowledge and skills in the following areas:

1. The Learner and Learning
a. Learner Development: The teacher understands how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.
b. Learning Differences: The teacher uses understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.
c. Learning Environments: The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self-motivation.
2. Content
a. Content Knowledge: The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) they teach and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.
b. Application of Content: The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.
3. Instructional Practice
a. Assessment: The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and the learner's decision making
b. Planning for Instruction: The teacher plans instruction and supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.
c. Instructional Strategies: The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.
4. Professional Responsibility
a. Professional Learning and Ethical Practice: The teacher engages in ongoing professional learning and uses evidence to continually evaluate their practice, particularly the effects of their choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.
b. Leadership and Collaboration: The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

## 18 HOURS EDUCATION FOUNDATION

EDUC-5003 Foundations of Instruction
EDUC-5043 Foundations of Learning Recovery
EDUC-5053 Foundations of Student-Centered Learning
EDUC-5063 Foundations of Addressing Student Well-Being
EDUC-5073
EDUC-5083

Foundations of Classroom Culture
Foundations of Teacher Leadership

## 9 HOURS TEACHING ENGLISH LEARNERS

EDUC-5123 Policies, Procedures, and Systems for English Learners
EDUC-5133 Upholding Rigor in Core Content for English Learners
EDUC-5143 Ensuring a Culture for Success for English Learners
3 HOURS CAPSTONE
EDUC-5793 Capstone Project

## M.ED. DEGREE IN CURRICULUM AND INSTRUCTION WITH AN EMPHASIS IN

 TEACHING STUDENTS WITH DISABILITIES - 30 HOURSA graduate with the Master of Education (M.Ed.) degree will hold knowledge and skills in the following areas:

1. The Learner and Learning
a. Learner Development: The teacher understands how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.
b. Learning Differences: The teacher uses understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.
c. Learning Environments: The teacher works with others to create environments that support individual and collaborative learning, and that encourage positive social interaction, active engagement in learning, and self-motivation.
2. Content
a. Content Knowledge: The teacher understands the central concepts, tools of inquiry, and structures of the discipline(s) they teach and creates learning experiences that make the discipline accessible and meaningful for learners to assure mastery of the content.
b. Application of Content: The teacher understands how to connect concepts and use differing perspectives to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global issues.
3. Instructional Practice
a. Assessment: The teacher understands and uses multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and the learner's decision making
b. Planning for Instruction: The teacher plans instruction and supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of learners and the community context.
c. Instructional Strategies: The teacher understands and uses a variety of instructional strategies to encourage learners to develop deep understanding of content areas and their connections, and to build skills to apply knowledge in meaningful ways.
4. Professional Responsibility
a. Professional Learning and Ethical Practice: The teacher engages in ongoing professional learning and uses evidence to continually evaluate their practice, particularly the effects of their choices and actions on others (learners, families, other professionals, and the community), and adapts practice to meet the needs of each learner.
b. Leadership and Collaboration: The teacher seeks appropriate leadership roles and opportunities to take responsibility for student learning, to collaborate with learners, families, colleagues, other school professionals, and community members to ensure learner growth, and to advance the profession.

## 18 HOURS EDUCATION FOUNDATION

EDUC-5003 Foundations of Instruction
EDUC-5043 Foundations of Learning Recovery
EDUC-5053 Foundations of Student-Centered Learning
EDUC-5063 Foundations of Addressing Student Well-Being
EDUC-5073
EDUC-5083

Foundations of Classroom Culture
Foundations of Teacher Leadership

## 9 HOURS TEACHING STUDENTS WITH DISABILITIES

EDUC-5093 Policies, Procedures, and Systems for Students with Disabilities
EDUC-5103 Intervention, Identification, and Core Content for Students with Disabilities
EDUC-5113 Classroom Routines and Supports for Students with Disabilities
3 HOURS CAPSTONE
EDUC-5793 Capstone Project

# DIVISION OF LANGUAGE, LITERATURE AND COMMUNICATION <br> GRADUATE SCHOOL OF COMMUNICATION AND LEADERSHIP 

## MISSION STATEMENT

The purpose of the Graduate School of Communication and Leadership is to help learners develop advanced leadership knowledge, use advanced leadership skills, apply a Christian worldview, and demonstrate effective leadership in their chosen career.

## AREAS OF STUDY

Communication (COMM)
Leadership (LDSH)

## DEGREES OFFERED

M.A.L. Degree in Church Leadership
M.A.L. Degree in Global Leadership
M.A.L. Degree in Leadership
M.A.L. Degree in Non-Profit Leadership
M.A.L. Degree in Organizational Leadership

## CERTIFICATES OFFERED

Peacemaking and Social Justice

## FACULTY

David Lowry, Ph.D., Professor of Communication
John Osborne, M.B.A., Director, International Programs; Assistant Professor of Communication
Brian Simmons, Ph.D., Chair, Division of Language, Literature, and
Communication; Professor of Communication and Honors

## LOCATION

Garvey Center

## DEAN

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

## SUMMARY OF DEGREE PROGRAMS

The Master of Arts in Leadership (M.A.L.) is an interdisciplinary, online graduate degree for those who wish to mature their ability to lead others and do good in the world. It prepares students for careers in a wide variety of sectors and organizations. The degree program provides a core set of leadership courses and then allows for specialization in several focus areas.

## REQUIREMENTS FOR DEGREE-SEEKING APPLICANTS

## Pre-application requirements are as follows:

- Completed application with a $\$ 25$ non-refundable application fee.
- Bachelor's degree from a regionally accredited U.S. institution or a nationally recognized university outside the U.S.
- Official transcripts for all degrees received.
- Official transcripts for any courses not listed in the degree transcript that might be relevant to the degree program (if such transcripts are not submitted, leveling courses may be required).
- A 2.75 cumulative undergraduate grade point average.
- Demonstrated English proficiency (non-native English speakers only). Please see page 8 of the catalog for information about the English proficiency requirement.
- For International students, please see page 8 of the catalog for information about requirements for international students.

Applicants with an undergraduate GPA of less than 2.75 may be admitted on probation. The applicant must complete one semester of graduate coursework with a cumulative GPA of 3.0 or higher. Successful completion of these
requirements will lift the student's probationary status and allow them to continue in communication and leadership programs.

## 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 Humanities and Bible 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.
- Bachelor's degree from a regionally-accredited U.S. institution.
- Official transcripts for all degrees received.
- 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 COMMUNICATION AND LEADERSHIP <br> Graduation

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

## Transfer Credit

There is no automatic transfer of credit toward degree requirements. Work accepted for credit must be approved by the chairperson of the graduate degree. No more than nine transfer hours may be used toward degree requirements and no work with less than "B" will be approved for transfer.

## M.A.L. DEGREE WITH AN EMPHASIS IN CHURCH LEADERSHIP

30 HOURS

The Master of Arts in Leadership (M.A.L.) degree is a 30-hour interdisciplinary studies graduate degree for those who wish to mature their ability to lead others and do good in the world. It prepares students for careers in a wide variety of sectors and organizations. The degree program provides a core set of leadership courses and then allows for specialization in several context areas. The M.A.L. degree has a practical focus more than a research focus in order to appeal to leadership practitioners from a wide range of sectors.

A graduate with the M.A.L. degree will:

1. Possess an advanced understanding of core leadership knowledge, including important leadership theories, principles, and effective frameworks for decision-making.
2. Be able to use advanced leadership skills in their organizational contexts, including conflict resolution and peacemaking, effective leadership communication, and problem analysis and solution implementation.
3. Be able to apply a Christian worldview in the practice of leadership, including ethical behavior and decision-making and leadership of others toward good ends.
4. Be prepared for a leadership position in their career and/or vocation, using their leadership abilities in their chosen field.

## 12 HOURS LEADERSHIP FOUNDATION

COMM-5523 Conflict Resolution and Peacemaking
LDSH-5013 Leadership Theory and Practice
LDSH-5023 Leadership and Ethics
LDSH-5793 Leadership Capstone

## 9 HOURS CHURCH LEADERSHIP

## GMIN-5023

Congregational Leadership
GMIN-5063
GMIN-5513

Managing Conflict, Transition, and Change
Congregational Development and Administration

9 HOURS ELECTIVES CHOSEN FROM
COMM-5013 Global Leadership
COMM-5023 Women and Leadership
COMM-5633 Intercultural Communication
INTL-5413
MGMT-5613
MGMT-5623
MGMT-5643
MGMT-5673
MGMT-5743

International Management
Leader Effectiveness
Team and Group Leadership
Organizational Development and Design
Non-Profit Organization Management
Social Entrepreneurship

## M.A.L. DEGREE WITH AN EMPHASIS IN GLOBAL LEADERSHIP

30 HOURS

The Master of Arts in Leadership (M.A.L.) degree is a 30-hour interdisciplinary studies graduate degree for those who wish to mature their ability to lead others and do good in the world. It prepares students for careers in a wide variety of sectors and organizations. The degree program provides a core set of leadership courses and then allows for specialization in several context areas. The M.A.L. degree has a practical focus more than a research focus in order to appeal to leadership practitioners from a wide range of sectors.

A graduate with the M.A.L. degree will:

1. Possess an advanced understanding of core leadership knowledge, including important leadership theories, principles, and effective frameworks for decision-making.
2. Be able to use advanced leadership skills in their organizational contexts, including conflict resolution and peacemaking, effective leadership communication, and problem analysis and solution implementation.
3. Be able to apply a Christian worldview in the practice of leadership, including ethical behavior and decision-making and leadership of others toward good ends.
4. Be prepared for a leadership position in their career and/or vocation, using their leadership abilities in their chosen field.

## 12 HOURS LEADERSHIP FOUNDATION

COMM-5523 Conflict Resolution and Peacemaking
LDSH-5013 Leadership Theory and Practice
LDSH-5023 Leadership and Ethics
LDSH-5793 Leadership Capstone

## 9 HOURS GLOBAL LEADERSHIP

$\begin{array}{ll}\text { COMM-5013 } & \text { Global Leadership } \\ \text { COMM-5633 } & \text { Intercultural Communication } \\ \text { INTL-5413 } & \text { International Management }\end{array}$

## 9 HOURS ELECTIVES CHOSEN FROM

COMM-5023 Women and Leadership
GMIN-5023 Congregational Leadership
GMIN-5063 Managing Conflict, Transition, and Change
GMIN-5513 Congregational Development and Administration
MGMT-5613 Leader Effectiveness
MGMT-5623 Team and Group Leadership
MGMT-5643 Organizational Development and Design
MGMT-5673 Non-Profit Organization Management
MGMT-5743 Social Entrepreneurship

## M.A.L. DEGREE WITH AN EMPHASIS IN LEADERSHIP

## 30 HOURS

The Master of Arts in Leadership (M.A.L.) degree is a 30-hour interdisciplinary studies graduate degree for those who wish to mature their ability to lead others and do good in the world. It prepares students for careers in a wide variety of sectors and organizations. The degree program provides a core set of leadership courses and then allows for specialization in several context areas. The M.A.L. degree has a practical focus more than a research focus in order to appeal to leadership practitioners from a wide range of sectors.

A graduate with the M.A.L. degree will:

1. Possess an advanced understanding of core leadership knowledge, including important leadership theories, principles, and effective frameworks for decision-making.
2. Be able to use advanced leadership skills in their organizational contexts, including conflict resolution and peacemaking, effective leadership communication, and problem analysis and solution implementation.
3. Be able to apply a Christian worldview in the practice of leadership, including ethical behavior and decision-making and leadership of others toward good ends.
4. Be prepared for a leadership position in their career and/or vocation, using their leadership abilities in their chosen field.

## 12 HOURS LEADERSHIP FOUNDATION

COMM-5523 Conflict Resolution and Peacemaking
LDSH-5013 Leadership Theory and Practice
LDSH-5023 Leadership and Ethics
LDSH-5793 Leadership Capstone

## 18 HOURS ELECTIVES CHOSEN FROM

COMM-5023
COMM-5013
COMM-5633

Women and Leadership
Global Leadership
Intercultural Communication

GMIN-5063
GMIN-5513
INTL-5413
MGMT-5613
MGMT-5623
MGMT-5643
MGMT-5673
MGMT-5743

Congregational Leadership
Managing Conflict, Transition, and Change
Congregational Development and Administration International Management
Leader Effectiveness
Team and Group Leadership
Organizational Development and Design
Non-Profit Organization Management Social Entrepreneurship

## M.A.L. DEGREE WITH AN EMPHASIS IN NON-PROFIT LEADERSHIP <br> 30 HOURS

The Master of Arts in Leadership (M.A.L.) degree is a 30-hour interdisciplinary studies graduate degree for those who wish to mature their ability to lead others and do good in the world. It prepares students for careers in a wide variety of sectors and organizations. The degree program provides a core set of leadership courses and then allows for specialization in several context areas. The M.A.L. degree has a practical focus more than a research focus in order to appeal to leadership practitioners from a wide range of sectors.

A graduate with the M.A.L. degree will:

1. Possess an advanced understanding of core leadership knowledge, including important leadership theories, principles, and effective frameworks for decision-making.
2. Be able to use advanced leadership skills in their organizational contexts, including conflict resolution and peacemaking, effective leadership communication, and problem analysis and solution implementation.
3. Be able to apply a Christian worldview in the practice of leadership, including ethical behavior and decision-making and leadership of others toward good ends.
4. Be prepared for a leadership position in their career and/or vocation, using their leadership abilities in their chosen field.

## 12 HOURS LEADERSHIP FOUNDATION

COMM-5523 Conflict Resolution and Peacemaking
LDSH-5013 Leadership Theory and Practice
LDSH-5023 Leadership and Ethics
LDSH-5793 Leadership Capstone

## 9 HOURS NON-PROFIT LEADERSHIP

MGMT-5623
Team and Group Leadership
MGMT-5673 Non-Profit Organization Management
MGMT-5743

Non-Profit Organization Management
Social Entrepreneurship

## 9 HOURS ELECTIVES CHOSEN FROM

COMM-5023 Women and Leadership
COMM-5013 Global Leadership
COMM-5633 Intercultural Communication
GMIN-5023 Congregational Leadership
GMIN-5063
GMIN-5513
INTL-5413
MGMT-5613
MGMT-5643

Managing Conflict, Transition, and Change
Congregational Development and Administration
International Management
Leader Effectiveness
Organizational Development and Design

## M.A.L. DEGREE WITH AN EMPHASIS IN ORGANIZATIONAL LEADERSHIP <br> 30 HOURS

The Master of Arts in Leadership (M.A.L.) degree is a 30-hour interdisciplinary studies graduate degree for those who wish to mature their ability to lead others and do good in the world. It prepares students for careers in a wide variety of sectors and organizations. The degree program provides a core set of leadership courses and then allows for specialization in several context areas. The M.A.L. degree has a practical focus more than a research focus in order to appeal to leadership practitioners from a wide range of sectors.

A graduate with the M.A.L. degree will:

1. Possess an advanced understanding of core leadership knowledge, including important leadership theories, principles, and effective frameworks for decision-making.
2. Be able to use advanced leadership skills in their organizational contexts, including conflict resolution and peacemaking, effective leadership communication, and problem analysis and solution implementation.
3. Be able to apply a Christian worldview in the practice of leadership, including ethical behavior and decision-making and leadership of others toward good ends.
4. Be prepared for a leadership position in their career and/or vocation, using their leadership abilities in their chosen field.

## 12 HOURS LEADERSHIP FOUNDATION

COMM-5523 Conflict Resolution and Peacemaking
LDSH-5013 Leadership Theory and Practice
LDSH-5023 Leadership and Ethics
LDSH-5793 Leadership Capstone
9 HOURS ORGANIZATIONAL LEADERSHIP
MGMT-5613
Leader Effectiveness
MGMT-5623
MGMT-5673

Team and Group Leadership
Non-Profit Organization Management

## 9 HOURS ELECTIVES CHOSEN FROM

COMM-5023
COMM-5013
COMM-5633
GMIN-5023
GMIN-5063
GMIN-5513
INTL-5413
MGMT-5643
MGMT-5743
Women and Leadership
Global Leadership
Congregational Leadership

International Management
Social Entrepreneurship

Intercultural Communication

Managing Conflict, Transition, and Change
Congregational Development and Administration
Organizational Development and Design

## GRADUATE SCHOOL OF COMMUNICATION AND LEADERSHIP CERTIFICATES

The Certificate in Peacemaking and Social Justice is a graduate-level program of study for those who wish to learn the fundamentals of mediation, conflict resolution, peacemaking, and social justice. The program focuses on a broad range of community and global issues, including social oppression, economic exploitation, conflict resolution, peacemaking, peace building, civil rights, social justice, and community advocacy, to name a few.

The program is especially useful for those wishing to know more about the importance of social justice while developing a basic set of mediation and conflict resolution skills. This certificate is especially helpful for ministers, public school teachers, community workers, and non-profit leaders, as well as businessmen and women who wish to learn more about how to go about creating more peaceful and just communities, societies, and work environments.

A graduate of the Certificate in Peacemaking and Social Justice will have:

1. Increased interests and understanding of issues of people and justice from individuals to global levels,
2. Basic skills in relational communication that are foundational for creating non-threatening and conflict-free environments,
3. Basic skills necessary for mediating basic conflicts and misunderstandings at the interpersonal and organizational levels, and
4. The knowledge and basic skills necessary for conducting basic mediation sessions using a Restorative Justice approach.

9 HOURS PEACEMAKING AND SOCIAL JUSTICE CERTIFICATE
BIBL-5013
COMM-5033
COMM-5523

Introduction to Social Justice
Mediation and Restorative Justice
Conflict Resolution and Peacemaking

Division of Business
Graduate School of Business
Division of Engineering and Computer Science
Graduate School of Engineering and Computer Science

# DIVISION OF BUSINESS GRADUATE SCHOOL OF BUSINESS 

AREAS OF STUDY
Accounting (ACCT)
Business (BUSA)
Finance (FINC)
Human Resources Management (HRMT)
Information Systems (INFO)
International Business (INTL)
Management (MGMT)
Marketing (MKTG)

## 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 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 Project Management

## CERTIFICATES OFFERED

Digital Marketing
Financial Management
Human Resources
Leadership
Project Management

## FACULTY

Stephanie Baird, Ph.D., Chair, Graduate School of Business; Registrar; Assistant Professor
Donald V. Drew, Ed.D., Professor of Business
Bill Goad, Ed.D., Professor of Business
Elaine Kelly, M.B.A., C.P.A., Associate Professor of Accounting
Wes McKinzie, M.A., Assistant Professor of Business
Kimberly Merritt, D.B.A., Professor of Business
Jillian Poyzer-Johnson, M.Acc. C.P.A., Assistant Professor of Accounting
Kerianne Roper, D.B.A., Professor of Business
Jeffery Simmons, D.B.A., Chair, Division and School of Business, Professor of Business
Burton Smith, Ed.D., Professor of Marketing

## LOCATION

Harvey Business Hall

## DEAN

Jennifer Gray, Ph.D., Dean, College of Professional Studies; Professor of Nursing

## SUMMARY OF DEGREE PROGRAMS

The Graduate School of Business (GSB) offers the Master of Accountancy (M.Acc.) and Master of Business Administration (M.B.A.) degrees. The M.Acc. requires 30 credit hours - 18 hours of accounting and 12 hours of business law, economics, ethics, and finance. The M.B.A. requires $36-48$ credit hours, depending on the student's prior study of foundational courses, including accounting, economics, management, and marketing. 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" classes.

The M.Acc. program focuses on advanced accounting practices, and research
enhances business scholarship within the GSB. 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's degree and achieve the level of education needed to qualify for the Certified Public Accountant (CPA) exam, preparing them for careers in major corporations and public accounting firms.

The M.B.A. program seeks to fulfill the mission of OC to transform lives for Christian faith, scholarship, and service. To accomplish its mission, the GSB 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.

## ADMISSION DETAILS FOR THE M.ACC. PROGRAM

## Admission Requirements for Degree-Seeking Applicants

Requirements are as follows:

- Completed application
- Application fee of $\$ 25$
- Bachelor's degree from a regionally-accredited U.S. institution or international equivalent (students from all academic disciplines are invited to apply)
- Student has taken finance and micro and macroeconomics
- Student has successfully completed 30 hours of accounting, to include tax and auditing
- Official transcripts for all degree(s) received
- Official transcripts for any courses not listed in the degree transcripts that might be relevant to the graduate program (if such transcripts are not submitted, leveling courses may be required)
- Minimum 3.0 undergraduate GPA
- For international applicants, please see additional requirements on page 8.

GRE and GMAT test scores are NOT needed if you have:

- An undergraduate GPA of 3.25 or higher
- An undergraduate GPA of 3.0 or higher AND five years of verifiable work experience
- At least nine hours of " B " or better graduate work from a regionallyaccredited university

Students who do need to submit scores need scores from one of these two exams. Exams must have been taken within the past five years.

- GMAT score of 450
- GRE score of 285 with a 3.0 writing component

This requirement of national test scores can be waived by the Chair of the Graduate School of Business if appropriate.

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's degree in disciplines other than accounting, but who have successfully completed 30 hours of fundamental undergraduate courses in accounting.

## ADMISSION DETAILS FOR THE M.B.A. PROGRAM Admission Requirements for Degree-Seeking Applicants <br> Requirements are as follows:

- Completed application
- Application fee of $\$ 25$
- Bachelor's degree from a regionally-accredited U.S. institution or international equivalent (students from all academic disciplines are
invited to apply)
- Official transcripts for all degree(s) received
- Official transcripts for any courses not listed in the degree transcripts that might be relevant to the graduate program (if such transcripts are not submitted, leveling courses may be required)
- Minimum 2.5 undergraduate GPA
- TOEFL paper score of 550 or computer score of 213 or web-based score of 79 or higher (international students only)
- For international applicants, please see additional requirements on page 8.

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.

National test scores are NOT needed if you have:

- An undergraduate GPA of 3.25 or higher
- An undergraduate GPA of 3.0 or higher AND five years of verifiable work experience
- At least nine hours of " B " or better graduate work from a regionallyaccredited university

Students who do need to submit scores need scores from one of these two exams. Exams must have been taken within the past five years.

- GMAT score of 450
- GRE score of 285 with a 3.0 writing component

This requirement of national test scores can be waived by the Chair of the Graduate School of Business if appropriate.

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's degree in disciplines other than accounting, but who have successfully completed 30 hours of fundamental undergraduate courses in accounting, economics, management, or marketing.

## GRADUATION

Candidates for degrees must complete an online application for graduation on myOC 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 assess 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 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 class time. See the Chair of the Graduate School of Business for additional information.

## TRANSFER CREDIT

There is no automatic transfer of credit toward meeting degree requirements. The Chair of the Graduate School of Business 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 their grade for that course to " B " or better.

## CURRICULAR PRACTICAL TRAINING

M.B.A. students will be allowed to select a practicum option for each track if they wish to make industry experience part of their educational plan. Industry internship/practicum is classified as an elective course of one to three credit hours. It will be counted toward the 36 hours required to earn the degree. Students selecting this option will be responsible for locating an appropriate industry opportunity themselves. The student will need to work closely with the Chair of the Graduate School of Business to receive necessary approvals PRIOR to starting the practicum.

## M.ACC. DEGREE IN ACCOUNTING

30 HOURS*

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

A graduate with the M.Acc. degree in Accounting will 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 hours of undergraduate accounting will be required to take ACCT-5003 (only offered during the summer).

0-3 HOURS ACCOUNTING LEVELING
ACCT-5003
Issues in Advanced Accounting Concepts
18 HOURS ACCOUNTING FOUNDATION STUDIES
ACCT-5113
ACCT-5123
ACCT-5133
ACCT-5143
Advanced Tax Accounting
Advanced Auditing and Professional Ethics
Advanced Financial Accounting
Topics in Accounting

ACCT-5153 Accounting Theory
ACCT-5163 Accounting Research and Quantitative Techniques
12 HOURS BUSINESS
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103 Financial Management
MGMT-5603 Managerial Ethics

## M.B.A. DEGREE WITH AN EMPHASIS IN ACCOUNTING

36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
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
27 HOURS BUSINESS FOUNDATION
ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103 Financial Management
INFO-5303 Business Intelligence
MGMT-5603
MGMT-5613

Managerial Ethics
Leader Effectiveness

| MGMT-5653 | Strategic Management |
| :--- | :--- |
| MKTG-5703 | Marketing Management |

## 9 HOURS ACCOUNTING ELECTIVES CHOSEN FROM

ACCT-5113 Advanced Tax Accounting
ACCT-5123 Advanced Auditing and Professional Ethics
ACCT-5133 Advanced Financial Accounting
ACCT-5803 Special Topics in Accounting
This track is 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 necessary to take the CPA exam in the state of Oklahoma.

## M.B.A. DEGREE WITH AN EMPHASIS IN FINANCE

36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
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
27 HOURS BUSINESS FOUNDATION
ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103 Financial Management
INFO-5303 Business Intelligence

MGMT-5603
MGMT-5613
MGMT-5653
MKTG-5703

## 9 HOURS FINANCE ELECTIVES CHOSEN FROM

FINC-5113
FINC-5123
FINC-5133
FINC-5143
FINC-5153
FINC-5803

Managerial Ethics
Leader Effectiveness
Leader Effectiveness
Marketing Management

Advanced Financial Management
Financial Planning
Risk Management
Investments
International Trade and Finance
Special Topics in Finance

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

36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
$\begin{array}{ll}\text { BUSA-5013 } & \text { Economic and Quantitative Analysis } \\ \text { BUSA-5023 } & \text { Marketing and the Legal Environment }\end{array}$
BUSA-5023 Marketing and the Legal Environment
BUSA-5033 Accounting and Financial Resources
BUSA-5043 Organizational and Operations Management

## 27 HOURS BUSINESS FOUNDATION

ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103 Financial Management
INFO-5303 Business Intelligence
MGMT-5603 Managerial Ethics
MGMT-5613 Leader Effectiveness
MGMT-5653 Strategic Management
MKTG-5703 Marketing Management
9 HOURS GENERAL BUSINESS ELECTIVES CHOSEN FROM
ACCT-5113 Advanced Tax Accounting
ACCT-5123 Advanced Auditing and Professional Ethics
ACCT-5133 Advanced Financial Accounting
ACCT-5803 Special Topics in Accounting
BUSA-5243 Management Science and Operations
BUSA-5253 Project and Technology Management
BUSA-5263 Quality Assurance and Control
BUSA-5803 Special Topics in Project Management

FINC-5113
FINC-5123
FINC-5133
FINC-5143
FINC-5153
FINC-5803
HRMT-5663
HRMT-5673
HRMT-5683
HRMT-5803
INTL-5413
INTL-5423
INTL-5433
INTL-5803
MGMT-5623
MGMT-5633
MGMT-5643
MGMT-5663
MGMT-5673
MGMT-5803
MKTG-5713
MKTG-5743
MKTG-5753
MKTG-5763
MKTG-5803

Advanced Financial Management
Financial Planning
Risk Management
Investments
International Trade and Finance
Special Topics in Finance
Human Resources Management
Core Resources/Compensational Benefits
Strategic Human Resources/Organizational Development
Special Topics in Human Resources
International Management
International Trade and Finance
International Marketing
Special Topics in International Business
Team and Group Leadership
Systems Diagnosis and Intervention Techniques
Organizational Development and Design
Human Resource Management
Non-Profit Organization Management
Special Topics in Leadership and Organizational Development
Sales Process and Ethical Influence
International Marketing
e-Commerce Marketing and Management
Digital Marketing
Special Topics in Marketing

## M.B.A. DEGREE WITH AN EMPHASIS IN HUMAN RESOURCES

36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
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

## 27 HOURS BUSINESS FOUNDATION

ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103 Financial Management

INFO-5303
MGMT-5603
MGMT-5613
MGMT-5653
MKTG-5703

Business Intelligence
Managerial Ethics Leader Effectiveness Strategic Management Marketing Management

9 HOURS HUMAN RESOURCES ELECTIVES CHOSEN FROM HRMT-5663
HRMT-5673
HRMT-5683
HRMT-5803

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

## M.B.A. DEGREE WITH AN EMPHASIS IN INTERNATIONAL BUSINESS <br> 36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
BUSA-5013 Economic and Quantitative Analys
BUSA-5023 Marketing and the Legal Environment
BUSA-5033 Accounting and Financial Resources
BUSA-5043 Organizational and Operations Management

27 HOURS BUSINESS FOUNDATION
ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103
Financial Management

NFO-5303
MGMT-5603
MGMT-5613
MGMT-5653
MKTG-5703

Business Intelligence
Managerial Ethics
Leader Effectiveness
Strategic Management
Marketing Management
9 HOURS INTERNATIONAL BUSINESS ELECTIVES CHOSEN FROM
INTL-5413 International Management
INTL-5423 International Trade and Finance
INTL-5433 International Marketing
INTL-5803 Special Topics in International Business
M.B.A. DEGREE WITH AN EMPHASIS IN LEADERSHIP AND ORGANIZATIONAL DEVELOPMENT - 36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
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

## 27 HOURS BUSINESS FOUNDATION

ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103 Financial Management
INFO-5303 Business Intelligence

MGMT-5603 Managerial Ethics
MGMT-5613 Leader Effectiveness
MGMT-5653 Strategic Management
MKTG-5703 Marketing Management
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 Resources Management
MGMT-5673 Non-Profit Organization Management
MGMT-5803 Special Topics in Leadership and Organizational Development

## M.B.A. DEGREE WITH AN EMPHASIS IN MARKETING

36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
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
27 HOURS BUSINESS FOUNDATION
ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103 Financial Management
INFO-5303 Business Intelligence

MGMT-5603 Managerial Ethics
MGMT-5613 Leader Effectiveness
MGMT-5653 Strategic Management
MKTG-5703 Marketing Management
9 HOURS MARKETING ELECTIVES CHOSEN FROM
MKTG-5713
MKTG-5743
MKTG-5753 International Marketing
e-Commerce Marketing and Management
MKTG-5763 Digital Marketing
MKTG-5803 Special Topics in Marketing

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

36 HOURS*

The Master of Business Administration (M.B.A.) degree consists of 36 credit hours for students possessing undergraduate degrees in a business discipline or up to 48 credit 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 seven areas (tracks): accounting, finance, human resources, international business, leadership and organizational development, marketing, and project management; or may select three electives from among those seven areas for a general business emphasis.

A graduate with the M.B.A. degree will 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 up to 12 hours of leveling courses.

0-12 HOURS BUSINESS LEVELING
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

## 27 HOURS BUSINESS FOUNDATION

ACCT-5103 Accounting Analytics
BUSA-5203 Managerial Economics
BUSA-5213 Legal and Regulatory Issues
FINC-5103
Financial Management

INFO-5303
MGMT-5603
MGMT-5613
MGMT-5653
MKTG-5703

Business Intelligence
Managerial Ethics
Leader Effectiveness
Strategic Management
Marketing Management
9 HOURS PROJECT MANAGEMENT CHOSEN FROM
BUSA-5243 Management Science and Operations
BUSA-5253 Project and Technology Management
BUSA-5263 Quality Assurance and Control
BUSA-5803 Special Topics in Project Management

## GRADUATE SCHOOL OF BUSINESS CERTIFICATES

The Graduate School of Business offers graduate certificates in five areas of study: Digital Marketing, Financial Management, Human Resources Management, Leadership, and Project Management. Each certificate requires three M.B.A. courses, which is equivalent to nine credit hours. Non-degree seeking students and current M.B.A. students can receive a certificate after satisfactory completion of required coursework. It should be noted that the Digital Marketing and Financial Management certificates include one class in each that is offered in the fall and spring, but not the summer.

A non-degree seeking student planning to pursue a graduate certificate will only need to complete an application and provide official transcripts showing a completed bachelor's degree with at least a 2.5 GPA . Once the certificate courses are successfully completed, as long as the grades are " $B$ " or better, the student may then apply the credit hours toward pursuit of the M.B.A. degree.

The certificates in the Graduate School of Business are $\$ 3,000$ ( $\$ 1,000$ per class), with textbooks costing extra. Additional fees may apply. Students pursuing a graduate certificate in the Graduate School of Business are not eligible to pay through federal student loans.

9 HOURS DIGITAL MARKETING CERTIFICATE
INFO-5303 Business Intelligence
MKTG-5753 e-Commerce Marketing and Management
MKTG-5763 Digital Marketing
9 HOURS FINANCIAL MANAGEMENT CERTIFICATE

| FINC-5103 | Financial Management |
| :--- | :--- |
| FINC-5133 | Risk Management |

FINC-5143 Investments

## 9 HOURS HUMAN RESOURCES CERTIFICATE

HRMT-5663 Human Resources Management
HRMT-5673 Core Resources/Compensational Benefits

HRMT-5683 Strategic Human Resources/Organizational Development

## 9 HOURS LEADERSHIP CERTIFICATE

MGMT-5613 Leader Effectiveness

MGMT-5623 Team and Group Leadership
MGMT-5643 Organizational Development and Design

9 HOURS PROJECT MANAGEMENT CERTIFICATE
BUSA-5243 Management Science and Operations
BUSA-5253 Project and Technology Management
BUSA-5263 Quality Assurance and Control

# DIVISION OF ENGINEERING AND COMPUTER SCIENCE 

GRADUATE SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

## AREAS OF STUDY

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

## DEGREES OFFERED

M.S.C.S. Degree in Computer Science with an Emphasis in Artificial Intelligence
M.S.C.S. Degree in Computer Science with an Emphasis in Cyber Security
M.S.C.S. Degree in Computer Science with an Emphasis in Data Science
M.S.C.S. Degree in Computer Science with an Emphasis in Software Engineering
M.S.E. Degree in Engineering

## FACULTY

Kenneth Bell, M.S., Assistant Professor of Electrical and Computer Engineering Jeff Bigelow, Ph.D., Chair, Electrical and Computer Engineering Program;

Professor of Electrical and Computer Engineering Jennifer Bryan, Ph.D., Chair, Mathematics Program; Professor of Mathematics David Cassel, Ph.D., Professor of Mechanical Engineering
Curtis Coleman, Ph.D. candidate, Assistant Professor of Computer Science
Donald Leftwich, M.A., Associate Professor of Mathematics and Computer Science
Steven Maher, M.S.E.E., Associate Professor of Electrical and Computer Engineering
Byron Newberry, Ph.D., Associate Chief Academic Officer for Accreditation and Institutional Effectiveness; Chair, Division and Graduate School of Engineering and Computer Science; Professor of Mechanical Engineering
Robert Nix, Ph.D., Associate Professor of Computer Science
David North, M.S., Chair, Computer Science Program; Associate Professor of Computer Science
Kevin Plumlee, Ph.D., Chair, Mechanical Engineering Program; Associate Professor of Mechanical Engineering
Pat Smith, M.S., Associate Professor of Computer Science
David Waldo, Ph.D., Professor of Electrical and Computer Engineering
Joe Watson, M.S.E.E., Professor of Electrical and Computer Engineering
Debra Whiteman, M.S.E., Assistant Professor of Mechanical Engineering

## LOCATION

Prince Engineering Center

## DEAN

Jennifer Gray, Ph.D., Dean, College of Professional Studies; Professor of Nursing

## 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 their 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 business, computer science, engineering, and/or mathematics 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 00 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.

## 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. Students will be allowed to select a practicum option if they wish to make industry experience part of their educational plan. Students are allowed to enroll in up to three hours of Graduate Computer Science Practicum or Graduate Engineering Practicum. Students selecting this option will be responsible for locating an appropriate industry opportunity themselves. The student will need to work closely with the M.S.C.S. or M.S.E. chair to receive necessary approvals PRIOR to starting the practicum.

## ADMISSION DETAILS

Admission Requirements for Degree-Seeking Applicants
Requirements are as follows:

- Completed application
- Application fee of $\$ 25$
- An accredited bachelor's degree from a university in the United States that aligns with the program being pursued (refer to the list below). Degrees from international universities must be evaluated to determine U.S. equivalency.
- To pursue an M.S.C.S. degree, a student must have a B.S. degree in computer science. If a student does not have a B.S. degree in computer science, up to four leveling classes may be required in addition to the 10 M.S.C.S. classes.
- To pursue an M.S.E. degree, a student must have a B.S. degree in computer, electrical, or mechanical engineering. Other closely
related degrees will be considered.
Official transcripts for all degrees received.
- Official transcripts for any courses not listed in the degree transcripts that might be relevant to the graduate program. (If such transcripts are not submitted, leveling courses may be required.)
- Minimum undergraduate GPA of 2.5 required.
- Minimum GRE test score of 285 with a 3.0 writing component, taken within the past five years.
- For international applicants, please see additional requirements on page 8.

GRE test scores are NOT needed if you have:

- A minimum undergraduate GPA of 3.0
- Five years of documented technical work experience
- At least nine hours of "B" or better graduate work from a regionallyaccredited university

This requirement of GRE test scores can be waived by the Chair of the Graduate School of Engineering and Computer Science if appropriate.

## PROVISIONAL ADMISSION

Students may be provisionally admitted if they meet all admission requirements, but have an academic background that is not closely aligned with the program to which they are applying. The provisional admission letter will specifically state the leveling work (may be multiple classes) required to pursue the program. Provisional admission is not allowed for other deficiencies in the admission requirement.

## AUDIT ADMISSION

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

## OTHER CONSIDERATIONS

Undergraduate students in computer science and engineering programs at OC may be accepted into an OC graduate program during their junior or senior year as part of a dual undergraduate/graduate degree program. Students should refer to the dual degree requirements in OC's Undergraduate Academic Catalog.

All leveling courses required by the chair for admission, including undergraduate courses, must be completed with a grade of " $C$ " or higher. 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.

## TRANSFER CREDIT

Up to nine semester hours of graduate credit may be transferred into the M.S.C.S. program upon approval of the faculty. Up to six semester credit hours of graduate credit may be transferred into the M.S.E. program upon approval of the faculty. The classes should be taken at a regionally or nationally accredited university. Engineering courses must be taken at a school with $A B E T$ accredited programs. A grade of " B " or higher is required and the work must have been completed within the last seven years.
M.S.C.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN ARTIFICIAL INTELLIGENCE - 30 HOURS

The Master of Science in Computer Science (M.S.C.S.) degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in computer science. 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. Possess an advanced understanding of core computer science knowledge. This includes programming languages, data structures, algorithms, computer architecture, operating systems, databases, and internet technologies.
3. Be able to use advanced computer science skills in the use and development of software systems. These include problem solving, programming, software engineering and management processes, communication, team work, and learning.
4. Be able to apply a Christian worldview in the practice of computer science. This includes ethical decision making, using technology for good, using technology to serve others, and using their abilities in a vocation.
5. Be prepared for a career and/or vocation in computer science, especially in artificial intelligence.

## 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003 Foundations of Technology Ethics and Values
CMSC-5333 Advanced Database Systems
CMSC-5343 Algorithm Analysis
CMSC-5613 Object Oriented Software Engineering

## 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

## 12 HOURS ARTIFICIAL INTELLIGENCE

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

## M.S.C.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN CYBER

 SECURITY - 30 HOURSThe Master of Science in Computer Science (M.S.C.S.) degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in computer science. 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 Smaltalk) 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. Possess an advanced understanding of core computer science knowledge. This includes programming languages, data structures, algorithms, computer architecture, operating systems, databases, and internet technologies.
3. Be able to use advanced computer science skills in the use and development of software systems. These include problem solving, programming, software engineering and management processes, communication, team work, and learning.
4. Be able to apply a Christian worldview in the practice of computer science. This includes ethical decision making, using technology for good, using technology to serve others, and using their abilities in a vocation.
5. Be prepared for a career and/or vocation in computer science, especially in cyber security.

## 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 CYBER SECURITY

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

6 HOURS ELECTIVES CHOSEN FROM
Choose 6 hours of 5000 level CMSC not already taken

## M.S.C.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN DATA

 SCIENCE - 30 HOURSThe Master of Science in Computer Science (M.S.C.S.) degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in computer science. 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 00 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. Possess an advanced understanding of core computer science knowledge. This includes programming languages, data structures, algorithms, computer architecture, operating systems, databases, and internet technologies.
3. Be able to use advanced computer science skills in the use and development of software systems. These include problem solving, programming, software engineering and management processes, communication, team work, and learning.
4. Be able to apply a Christian worldview in the practice of computer science. This includes ethical decision making, using technology for good, using technology to serve others, and using their abilities in a vocation.
5. Be prepared for a career and/or vocation in computer science, especially in data science.

## 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003 Foundations of Technology Ethics and Values
CMSC-5333 Advanced Database Systems
CMSC-5343 Algorithm Analysis
CMSC-5613 Object Oriented Software Engineering
6 HOURS ELECTIVES CHOSEN FROM
Choose 6 hours of 5000 level CMSC not already taken

12 HOURS DATA SCIENCE
CMSC-5353 Big Data Management
CMSC-5363 Data Science Project I
CMSC-5373 Data Science Project II
CMSC-5723 Machine Learning
M.S.C.S. DEGREE IN COMPUTER SCIENCE WITH AN EMPHASIS IN SOFTWARE ENGINEERING - 30 HOURS

The Master of Science in Computer Science (M.S.C.S.) degree requires a minimum of 30 credit hours of coursework for students possessing an accredited undergraduate degree in computer science. 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. Possess an advanced understanding of core computer science knowledge. This includes programming languages, data structures, algorithms, computer architecture, operating systems, databases, and internet technologies.
3. Be able to use advanced computer science skills in the use and development of software systems. These include problem solving, programming, software engineering and management processes, communication, team work, and learning.
4. Be able to apply a Christian worldview in the practice of computer science. This includes ethical decision making, using technology for good, using technology to serve others, and using their abilities in a vocation.
5. Be prepared for a career and/or vocation in computer science, especially in software engineering.

## 12 HOURS COMPUTER SCIENCE FOUNDATION

CMSC-5003 Foundations of Technology Ethics and Values
CMSC-5333 Advanced Database Systems
CMSC-5343 Algorithm Analysis
CMSC-5613 Object Oriented Software Engineering

## 6 HOURS ELECTIVES CHOSEN FROM

Choose 6 hours of 5000 level CMSC not already taken

## 12 HOURS SOFTWARE ENGINEERING

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

## M.S.E. DEGREE IN ENGINEERING

30 HOURS*

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

1. The ability to critically examine and manage contemporary challenges of the engineering profession, including professional ethics, diversity, and globalization
a. Ethical awareness and decision making relative to contemporary engineering practice.
b. Awareness and respect for diversity and global issues.
2. That they are broadly equipped to both contribute to and lead multidisciplinary engineering projects.
a. Appropriate solution strategies.
b. The ability to perform mature technical assessment and evaluation.
3. Scholarship with depth beyond the B.S. degree with the students' chosen field of specialization.
a. The ability to perform individual research.
b. The ability to communicate in appropriate scholarly forms for the discipline.
*Students without a previous degree in engineering may need three or more hours of leveling.

18 HOURS ENGINEERING FOUNDATION
ENGR-5003
Foundations of Technology Ethics and Values
ENGR-5203
ENGR-5213
ENGR-5223

Systems Engineering
Tools of Operations Research
Systems Engineering Management

| ENGR-5323 | Failure Analysis of Engineering Systems |
| :--- | :--- |
| ENGR-5793 | M.S.E. Capstone |

ENGR-5793 M.S.E. Capstone

12 HOURS OF GRADUATE LEVEL ENGINEERING ELECTIVES
Choose from ELEC, ENGR, MATH, or MECH courses not already taken

While OC will attempt to offer every course when noted in the catalog, there will be times when a course may not be offered when noted in the catalog or when a course might be offered at a time other than when noted in the catalog. Students are advised to check each semester's course schedule and to confer with their advisors regarding particular courses. Students should also be aware that the last number of a course's number is equal to the total number of credit hours awarded for that course, with the exception of the variable courses.

## ACCOUNTING (ACCT)

## 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 ANALYTICS

Prerequisite: BUSA-5033. This managerial accounting course will provide the skills to assist in evaluating issues related to a company's operating activities. The course will also focus on how managers can effectively use accounting information and analytical tools to improve performance.

## 5113 ADVANCED TAX ACCOUNTING

Prerequisite: ACCT-3413 or the equivalent. M.B.A. 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. M.B.A. 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

M.B.A. 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 decisionmaking. This course is normally offered in the summer.

## 5143 TOPICS IN ACCOUNTING

Prerequisite: For M.Acc. 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 M.Acc. 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 weaknesses 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 M.Acc. 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.

## BIBLE (BIBL)

## 5013 INTRODUCTION TO SOCIAL JUSTICE

The people of God are called to "act justly and to love mercy" (Micah 6:8), but our pluralistic society holds competing visions of what a "just" world looks like. The purpose of this course is to enable students to understand the meaning and practical implications of
various historical and contemporary conceptions of justice. Students will be challenged to identify resources from scripture and the Christian tradition that can be used to interpret and address social issues within the church and society such as wealth and equality, civil rights, environmental rights, the criminal justice system and the labor movement. Sources for the course include classical texts on justice, scripture, classical Christian texts, and modern Christian social theorists. Major themes to be explored within the course include the role of religion in the public's sphere, understanding the person in relation to society and the state, the search for the common good, the use of force within and between communities, the dignity of the human person, and the mediation of conflicting justice traditions within a pluralistic society. This class is offered as needed.

## 5423 HISTORY OF THE BIBLE AND ITS INTERPRETATION

A course introducing the student to the composition of the Bible and its various uses throughout history. Key questions to be addressed include: What do we know of the authors of the biblical books and their backgrounds? How were certain books selected for inclusion in the Bible, while others were excluded? How were the texts of scripture preserved and transmitted over the centuries? What do different people mean when they talk about the Bible in terms such as "Word of God," "inspired," authoritative"? How far back do such treatments of biblical texts go, and what other meaningful lenses are there through which to approach these texts?

## 5433 READING THE BIBLE AFTER THE SHOAH (HOLOCAUST)

Reading the Hebrew Bible after the Shoah explores the question: "What difference does it make to read the Hebrew Bible / Old Testament in the wake of the Shoah." Reading after the Shoah faces history and faces the capabilities of human beings to act with intolerance and violence towards one another in genocides in the modern world: The Stalin Purges, The Rwandan Genocide, the Cultural Revolution in China, the Armenian Genocide, Protestant/Catholic conflicts, American Slavery as well as contemporary systems that foster bigotry, hatred, and disregard for basic human rights. Reading after the Shoah explores how biblical texts speak to the human dignity of each person made in the image of God and how as the people of God we are called to bear witness to the suffering of others and serve them as it is within our influence and ability.

## 5603 INTRODUCTION TO OLD TESTAMENT THEOLOGIES

This course will explore the history and problems of Old Testament theology, help the student develop a critical method for OT theology, present the major theological themes in selected texts, and reclaim the relevance of OT theology for contemporary life and the church (completion of BIBL-5113 is recommended but not required).

## 5613 INTRODUCTION TO NEW TESTAMENT THEOLOGIES

This course introduces students to the history and practice of New Testament
Theology, its methodological strengths and weaknesses, and its relationship to other theological disciplines. Students will learn how 1st century A.D. Greco-Roman and Jewish cultures shaped and gave expression to the theologies discernible in the New Testament and were led to critically evaluate how contemporary culture attempts to interact constructively with the theology of the New Testament.

5633 READING THE BIBLE: ASSUMPTIONS, TRADITIONS, AND METHODS A study of various interpretive strategies that are employed to interpret the Bible. The course is designed to lead the student into a better understanding of the assumptions that they bring to reading Scripture and seeking meaning/significance from it.

5713 THESIS I
This course is the beginning of the thesis project for the thesis requirements in the Graduate School of Theology.

5723 THESIS II
Prerequisite: BIBL-5713. This course is the completion of the thesis project for the thesis requirements in the Graduate School of Theology.

## BUSINESS ADMINISTRATION (BUSA)

## 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 MANAGERIAL ECONOMICS

Prerequisite: BUSA-5013. The course covers fundamental micro and macroeconomic concepts. Emphasis on understanding the major issues of U.S. 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.

## COMMUNICATION (COMM)

## 5013 GLOBAL LEADERSHIP

This course focuses on understanding leadership in a global context, providing both theoretical framework and practical advice for leading across cultural boundaries and addressing international challenges. The study and analysis of cultural impacts on successful leadership and various geographical areas. This class focuses on cultural theories and models that influence leadership across contexts.

## 5023 WOMEN AND LEADERSHIP

This course reviews historical and contemporary challenges and opportunities related to women's leadership development. It examines the personal, social, and structural dynamics that differently affect women and men as leaders, particularly in terms of how they are viewed, how their contributions are evaluated, and what kind of opportunities are available to them. Topics addressed include how gender and leadership are constructed, the leadership styles of men and women, gender and leadership in the workplace, and how women succeed as leaders. A major focus of this course will include strategies for change and what has and can be done to improve the path of leadership for women. Students will also explore their own leadership attributes and develop an understanding of who they are as leaders. This course is offered as needed.

## 5033 MEDIATION AND RESTORATIVE JUSTICE

Mediation and Restorative Justice is a course designed to teach basic six step mediation processes used by many of today's small claims and family courts across America. Additionally, principles and practices of social restoration are emphasized to prepare students for mediating disputes where physical or property harms have been committed.

## 5523 CONFLICT RESOLUTION AND PEACEMAKING

In this course, learners discover the theory, research, practice, and Biblical principles of communication as it relates to understanding and negotiating interpersonal conflict. This
course is offered every semester.

## 5633 INTERCULTURAL COMMUNICATION

A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. This class fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. This course is normally offered every semester.

## COMPREHENSIVE EXAM (COMP)

## 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)

## 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 NETWORK ENGINEERING

An introductory look at computer network design and engineering topics with a focus on layer 2-4 and 7 Internet protocols, including Ethernet, IP, TCP, and UDP, FTP, and HTTP. The course includes the use of network protocol analyzers to enable hands-on network protocol experience. Strong emphasis in wired and wireless network design with mathematical modeling, simulation, and trade- offs in protocols and hardware. Examination of commonly used protocols and standards. Students cannot receive credit for both CENG4213 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 designed and built. Topics will include controller selection, software development, layout of printed-circuit boards, and test/validation strategies. Lecture 2 hours; laboratory 3 hours. This course is normally offered in the spring semester.

## 5233 ADVANCED COMPUTER ARCHITECTURE

Computer organization and design. Fundamentals of computer design, instruction set architectures, instruction-level parallelism, pipelining principles, speculation, threadlevel parallelism, memory hierarchies, cache principles, virtual memory, microprocessors, storage systems, clusters, historical perspectives. Students cannot receive credit for both CENG-4233 and CENG-5233.

## 5243 ADVANCED NETWORK ENGINEERING

An application of the concepts learned in a first network engineering course with a focus on operational network concepts and protocols such as first hop redundancy protocols, dynamic routing protocols, network security, network troubleshooting, and network modeling. The course includes the use of network simulation and virtualization to enable hands-on network configuration and troubleshooting experience. Configuration of commonly used protocols and standards on simulated industry equipment. Hardening of network protocols and infrastructure layer 2 and layer 3 devices.

## COMPUTER SCIENCE (CMSC)

5003 FOUNDATIONS OF TECHNOLOGY ETHICS AND VALUES
Theories of engineering and computer science ethics and values. Ethical theory from a 2021-2022 GRADUATE ACADEMIC CATALOG \| 58

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

## 5133 INTRODUCTION TO PARALLEL PROGRAMMING

This course is an introductory course in parallel programming for upper-division undergraduate and graduate students who have already learned to program in C, C++, Java, or C\#. The goal of the course will be to equip computer science students to be able to program multi core computers and parallel processors generally for scientific, engineering, and business applications.

## 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 CMSC5233.

## 5313 HUMAN COMPUTER INTERACTION

An introduction to user interface design and user experience. Topics include HCl concepts and principles, usability, HCl evaluation, HCl design, interaction devices. This course is normally offered in the fall semester of odd numbered years. Students 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.

## 5353 BIG DATA MANAGEMENT

Prerequisite: CMSC-5333. A course on the practical implementation of big data technology. Students will learn to use Hadoop and other projects in the Hadoop ecosystem to effectively manage big data tasks, as well as delivering results to human observers. Topics include data processing, data visualization, and distributed data processing.

## 5363 DATA SCIENCE PROJECT I

Prerequisite: CMSC-5723. A project-oriented class where the student will use data science principles, knowledge and skills to solve a problem as a team. Topics include Hadoop and related technologies, and data science processes.

## 5373 DATA SCIENCE PROJECT II

Prerequisite: CMSC-5363. A project-oriented class where the student will use data science principles, knowledge and skills to solve a problem on their own. Topics include Hadoop and related technologies, and data science processes.

## 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.

5433
COMPILER CONSTRUCTION
An introduction to compiler construction. Topics will include lexical analysis, syntax analysis, intermediate code generation, runtime environments, code generation, and optimization.

## 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 CMSC4513 and CMSC-5513.

## 5523 CRYPTOGRAPHY

This course covers foundations and practical applications of modern cryptography. Ideas about defining security, hardness assumptions, and the possibility of proving security of complicated constructions based on low-level primitives will all be explored. Topics include: principles of modern cryptography, classical encryption schemes, private-key encryption, message authentication, hash functions, public-key encryption, and digital signatures. By the end of the course, the student will have a firm grasp of cryptographic primitives in wide use today and a knowledge of how to combine these in order to develop modern protocols for secure communication. Students cannot receive credit for both CMSC-4443 and CMSC-5523.

## 5613 OBJECT ORIENTED SOFTWARE ENGINEERING

Prerequisite: CMSC-2313. An introduction to software engineering using object-oriented concepts for the software development life cycle. This course will cover the software development life cycle activities of requirements, design, development, and testing. The course will introduce UML (Unified Modeling Language) as a way to document requirements and designs. The course will prepare students to gather requirements, create designs and document them both. Some knowledge of an object-oriented programming language is recommended. Same as CENG-5613.

## 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 analytical 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.

## 5633 PATTERNS OF OBJECT-ORIENTED SYSTEMS

Prerequisite: CMSC-5613. This course will investigate the use of patterns in objectoriented software development. Topics include analysis patterns, design patterns, and enterprise system patterns.

## 5643 NETWORK SECURITY

This course focuses on the concepts, terminology and practice of network security. Topics include the fundamental goals of network security and practical applications of wired and wireless network security techniques such as applications of cryptology in network protocols, authentication, access control, network security devices such as firewalls and intrusion detection and prevention systems, incident response, log analysis, honeypots and honeynets. This course prepares students for the CompTIA Network+ and Security+ certification exams. Students are required to research and present an APAP format research paper. Laboratory 2 hours.

## 5653 CLOUD ARCHITECTURE AND SECURITY

This course covers cloud computing architecture and cloud security concepts including access control and management, governance, logging, and encryption methods. It also covers security-related compliance protocols and risk management strategies, as well as procedures related to auditing cloud security infrastructure. Students will have hands-on experience designing solutions for AWS cloud-based platforms and operations that maintain data availability while protecting the confidentiality and integrity of information. This includes security controls, disaster recovery plans, and continuity management plans that address physical, logical, and human factors. This course prepares students for the CompTIA Security+ certification exam. Students are required to research and present an APA format research paper. Laboratory 2 hours.

## 5663 NETWORK FORENSICS

Prerequisite: CMSC-4643 or CMSC-5643. Introduces digital forensic concepts and practices on local area networks, wide area networks and large-scale networks such as the Internet. Lectures include topics such as investigative techniques, and how to conduct a cyber investigation, manage chain-of-evidence and follow a cyber-trail. A large part of the course involves demonstrations and hands-on labs, including: use of network forensic tools such as packet monitors, security information and event
managers (SIEMs), tracers, and other tools useful for analyzing events. Many of the labs involve analysis of packet captures of both actual attacks and theoretical malfeasance by offenders. Students have a final lab exercise instead of a final exam, and are required to research and present an APA format research paper. Laboratory 2 hours.

## 5673 COMPUTER SYSTEMS RISK MANAGEMENT

This course applies the NIST Risk Management Framework (RMF) as students complete project deliverables and communicate project results, integrating Enterprise and Cloud System risk management principles and standards. Students will develop in-depth analytic competencies to relevant risk problems. Students are to research and present a Computer Risk Report instead of a final exam.

## 5683 OFFENSIVE SECURITY AND PENETRATION TESTING

Prerequisite: CMSC-5643.This course prepares students to conduct successful offensive security, penetration testing, and ethical hacking projects. The course covers proper planning, scoping and reconnaissance, and then dives deep into scanning, target exploitation, password attacks, and wireless and Web applications with detailed hands-on exercises. Students will participate in an intensive, hands-on Capture the Flag exercise, conducting a penetration test against a sample target organization. This course prepares students for the professional CompTIA PenTest+Security certification exam. Laboratory 2 hours.

## 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.

## 5723 MACHINE LEARNING

Prerequisite CMSC-5723. A project-oriented class where the student will use artificial intelligence principles, knowledge, skills, and technologies to solve a problem as a team. Topics include machine learning and related technologies, artificial intelligence and software development processes.

## 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.

## 5753 INTELLIGENT SYSTEMS

Prerequisite: CMSC-2233. A course in the use of artificial intelligence to solve problems. Students will learn how to make use of machine reasoning and search to complete tasks from basic spatial reasoning to game playing. Topics include logic programming, intelligent search, and reasoning with uncertainty.

## 5763 ARTIFICIAL INTELLIGENCE PROJECT

A project-oriented class where the student will use artificial intelligence principles, knowledge, skills, and technologies to solve a problem as a team. Topics include machine learning and related technologies, artificial intelligence and software development processes.

## 5773 ARTIFICIAL INTELLIGENCE PROJECT II

Prerequisite: CMSC-5763. A project-oriented class where the student will use artificial intelligence principles, knowledge, skills, and technologies to solve a problem on their own. Topics include machine learning and related technologies, artificial intelligence and software development processes.

## CULTURE (CLTR)

## 5013 SECULARIZATION AND CHRISTIANITY

This course will introduce students to the history and theories of secularization: the sociological process whereby societies break the connections between many of the social institutions that religion helped shape and the religions that shaped them. Students will engage with some of the key secularizing and anti-secularization writings, especially from the time of the Reformation and Enlightenment through today. Students will engage with modern Christian responses to secularization. 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.

## 5023 BIBLE AND CLASSICAL LITERATURE

A study of major texts taken from the Bible and from the literature of other ancient civilizations (Babylonian, Egyptian, Greek, and Roman). Students study the similarities of theme and genre found among these texts, and analyze the variety of responses they offer to our human condition and needs.

5033
Appreciating that which is beautiful in the world moves us closer to seeing the magnificence of God as "creator," as artist." Art is transcendent and lifts our eyes over the horizon of the ordinary and the mundane and points us to what is possible, enduring, and eternal. The artist as creator brings something of his or her unique being and perspective to the world, time, and place in which they live. This course explores the engagement of art in any form as a means to perceive the nature of God and God's work in the world, and responses to the human condition. The course explores how biblically or theologically themed art has shaped theological thinking and biblical interpretations and conversely how we may learn to evaluate the messages of art theologically.

## 5043 SACRED TIMES AND SPACES

This course explores the human impulse to sanctify certain times and places, with special attention given to such practices in Judeo-Christian traditions. Students in this course will explore first what the concept of "the sacred" is as a lived experience, and will then investigate how such encounters with holiness lead cultures and individuals to demarcate holy times and places. Other points of interest will include the necessity of "embodiment" for healthy religion, the role that sanctuaries and holidays have for societies, and the ultimate sanctification of the entire cosmos within the Godhead.

5103 SCIENCE, CULTURE, AND CHRISTIANITY
This course will introduce students to the history and theories of the relationship between modern science and Christian faith. Students will engage with some key writings about the nature of science and the nature of scripture. Students will become familiar with some important ways of understanding the relationship between science and Christianity.

## 5113 CULTURES OF SECOND TEMPLE JUDAISM AND EARLY CHRISTIANITY

This course will examine the various cultures that are operating during the period often called Second Temple Judaism (586 B.C.- 70 A.D.) and how knowledge of this cultural background helps to shape interpretation of the teachings of Jesus and the writings of the New Testament. Special attention will be given to the major themes of the Jewish attempts to reconstruct a religious, cultural identity in the context of Hellenistic and Roman cultures and how Jesus and New Testament authors expressed their faith alongside the diversity of first-century Judaism and Greco-Roman cultures.

## 5123 ROMAN CAESARS VS CHRISTIAN LORD

This course will examine the various cultures that are operating during the period often called Second Temple Judaism (586 B.C.- 70 A.D.) and how knowledge of this cultural background helps to shape interpretation of the teachings of Jesus and the writings of the New Testament. Special attention will be given to the major themes of the Jewish attempts to reconstruct a religious, cultural identity in the context of Hellenistic and Roman cultures and how Jesus and New Testament authors expressed their faith alongside the diversity of first-century Judaism and Greco-Roman cultures.

## 5133 KINGDOM OF GOD: CORE VALUES OF JESUS AND THE EARLY CHURCH

A study of the sociocultural values, both assumed and explicitly espoused, of the first century Greco-Roman world, of Jesus, and of the early church.

## 5163 CULTURAL ANTHROPOLOGY

This course is designed to enhance students' Cultural Intelligence, their capacity to interact effectively with people from cultural backgrounds different from their own. It will do this by examining several basic cross-cultural variables from an anthropological perspective.

## 5753 CAPSTONE

In this course, students are required to bring to bear in a final project and/or presentation concepts and principles they have learned throughout the course. The project and/or presentation focuses on applying this knowledge in a real-world scenario It is specifically designed to meet the following program learning outcome: "Learners will develop biblically and theologically informed, practical strategies to help the church address contemporary social / cultural issues.

## EDUCATION (EDUC)

## 5003 FOUNDATIONS OF INSTRUCTION

Effective teachers know what to teach and how to teach it given the students in their classroom. The "what" is grounded in content standards, curriculum, and student work. Content standards define what students should know and be able to do at a given grade level; they are built upon linear and cyclical progressions of knowledge and skill. Curriculum transforms standards into work for students to engage with. This course ensures teachers understand their standards, can analyze the quality of their given curriculum against those standards, and can meaningfully analyze student work to

## 5013 PROGRAM PLANNING AND EVALUATION

Program Planning presents an overview of the process for designing, presenting and evaluating programs in a variety of fields. This course provides instruction and practice designing and implementing high quality programs. This essential skills learning is for OC students to build skills in the areas of program development, evaluation, and impact reporting. The course includes training on active learning, practical application, and practice in developing evaluation tools to measure program impact.

5023 DIVERSITY AND INCLUSION
Introduces learners to relevant literature and practices of diversity and inclusion within educational settings. Includes examination of the learner's own social location.

## 5033 LEARNING THROUGH TECHNOLOGY

This eight-week online course explores blended learning from the perspectives of theory and practice and is designed for educators and instructional designers in all educational environments (e.g. K-12, higher education, corporate environments, non-profit organizations). It focuses on the application of theory and research to pedagogy and curriculum design to achieve a synergy between technology and classroom environments. Topics include theoretical frameworks and best practices in blended learning, institutional perspectives and assessment, and the design and implementation of a blended curriculum.

## 5043 FOUNDATIONS OF LEARNING RECOVERY

This course focuses on providing just-in-time support so that students can engage in on-grade-level work. It supports participants in intentional planning to identify key prerequisite skills and knowledge, implementation of routine structures that maximize efficiency during instructional time, and the strategic connection of student data to the prerequisite skills planning and classroom routines and structures, so that students receive the necessary academic support for success.

## 5053 FOUNDATIONS OF STUDENT-CENTERED LEARNING

Student Centered Learning is a phrase often used within education but definitions may vary across sources and context. In this course, participants learn strategies to actively engage students in their own learning, ensuring that students do the "heavy lifting." This course focuses on foundational engagement pedagogy, discussions, collaborative learning structures, and feedback for growth.

## 5063 FOUNDATIONS OF ADDRESSING STUDENT WELL-BEING

In addition to academic needs, educators serve a vital role in acknowledging and supporting students' well-being, including, physical (e.g., health, nutrition), social, and mental health needs. This course helps educators attend to student well-being by requiring them to establish personal, positive relationships with individual students and leverage school, school system, and community support to assess and address individual student needs.

## 5073 FOUNDATIONS OF CLASSROOM CULTURE

Educators focused on developing a fair and respectful classroom environment expect and support every student to succeed within the school environment and beyond, with explicit attention to how a student's individual circumstances may influence the types and level of support needed. This course helps educators develop a foundation of respect and rapport in their classroom among their students, assess their current classroom culture for fairness around four key domains: curriculum, instructional practices, relationships, and disciplinary practices; and use an inquiry-based approach to understand a student's strengths and needs in order to help them realize their full potential.

## 5083 FOUNDATIONS OF TEACHER LEADERSHIP

As teachers gain experience and grow in effectiveness, many will seek out or be sought out for leadership roles. They may continue to teach students but also have an influence that extends beyond their own classrooms or they may go into instructional leadership, school leadership, or system leadership positions. No matter the path, the foundational leadership skills focused on in this course are critical to expanding the educator's impact and reach.

## 5093 POLICIES, PROCEDURES, AND SYSTEMS FOR STUDENTS WITH DISABILITIES

Federal laws and policies are designed to protect the rights of students with disabilities and promote student success. When a student needs additional support, effective teachers understand how to build a compelling case for change, leverage systems and structures to support the change, and build self-advocacy skills of all learners. Research shows that students with disabilities are fully capable of making progress towards gradelevel standards, when provided with the right support. This course supports educators to communicate and advocate for students, leveraging laws and policies to attend to their needs.

## INTERVENTION, IDENTIFICATION, AND CORE CONTENT FOR

 STUDENTS WITH DISABILITIESThis course moves students from the fundamentals of supporting students with disabilities to include the content specific supports. Educators explore intensive interventions, seek school-level and family support, and understand when to refer a student for a special education evaluation. They integrate special education support into a flexible inquiry cycle during core ELA instruction to ensure that every student can express their understanding of complex, grade-level content. To ensure all students access and progress in grade-level math/science learning, teachers need to integrate the evidence base and special education supports in math to tailor their instructional approaches to meet individual student needs.

## 5113 CLASSROOM ROUTINES AND SUPPORTS FOR STUDENTS WITH DISABILITIES

This course requires educators to deploy additional strategies to support students with disabilities such as evidence-based behavior interventions, strong co-teaching models and leveraging small groups for academic support.

POLICIES, PROCEDURES, AND SYSTEMS FOR ENGLISH LEARNERS
The English learner population is growing across the nation yet far too few teachers are equipped with the knowledge and skill to support this population of students. This course focuses on the foundational laws, policies, and practices that allow teachers to begin to positively impact English learners in their class and school.

## 5133 UPHOLDING RIGOR IN CORE CONTENT FOR ENGLISH LEARNERS

English learners have the complicated responsibility of learning a new language while also progressing in their mastery of grade-level content. This can't often be accomplished without the core classroom teacher understanding the stages of language acquisition and providing content-related support. This course provides learning and implementation opportunities for educators to strategically connect understanding of the stages of language acquisition, student observation, and assessment data to core ELA and math instruction.

## 5143 ENSURING A CULTURE FOR SUCCESS FOR ENGLISH LEARNERS

This course requires educators to deploy advanced strategies to support students who are English learners such as supporting student voice, school culture analysis, and advanced advocacy for improvements.

## 5153 COMPUTING AND SOCIETY

While today's children and teens are digital natives, a digital divide remains because many students lack sufficient access to both technology and media mentors. This course focuses on the fundamental concepts that lead to computer science readiness: digital citizenship, inclusive computing cultures, and analyzing the positive and negative impacts of computing on society.

## 5163 COMPUTATIONAL THINKING

This course moves students from the fundamentals of computer science to the more concrete skills needed to succeed in computer science, including computational thinking, recognizing computational problems, working with data, and creating computational artifacts.

## 5173 COMPUTING SYSTEMS AND BASIC PROGRAMMING

This course addresses computing system components, including hardware, software, networks, and the internet, as well as beginner programming tools and technologies to support students in the digital age.

## 5183 FOUNDATIONS FOR BLENDED LEARNING

This course focuses on foundational structures critical to the success of blended learning environments. It supports participants in intentional planning by assessing student learning needs, by setting up a weekly blended learning arc utilizing four key modalities that move the classroom toward a student-centric approach, and developing strong student-teacher relationships that will support students in developing agency and confidence to engage in blended learning.

5193 ESTABLISHING SYSTEMS TO SUPPORT BLENDED LEARNING
This course focuses on foundational structures critical to the success of blended learning environments. It supports participants in engaging intentionally with parents as partners in the learning process, co-creating norms with students to optimize ownership of classroom processes, and onboarding students to the blended learning environment by building student agency and utilizing specific strategies to support students who may struggle with blended learning.

## 5203 ADVANCED STRATEGIES FOR BLENDED LEARNING

This course expands on foundational structures addressed in Blended Learning 1. It supports participants to infuse inclusive practices into the Blended Learning Arc structures and expands on this foundational Blended Learning structure by introducing other models like the flipped classroom. In addition, participants will model a growth
mindset with their students which is a critical factor for success in a Blended Learning environment.

## 5213 ESTABLISHING SOCIAL EMOTIONAL LEARNING PRACTICES

Implementing strong social emotional learning instruction establishes equitable learning environments and coordinates practices across key settings of classrooms, schools, families, and communities to enhance all students' social, emotional, and academic learning. Social-emotional learning (SEL) builds students' social and emotional skills, which are the abilities, behaviors, and attitudes students and adults need to effectively manage their affective, cognitive, and social behavior. They help students understand and manage their emotions, strengthen their self-esteem, and build positive and productive relationships with others. This course focuses on the following fundamental Social Emotional Learning concepts such as elevating SEL in the school setting, promoting student self-management, and promoting student self-awareness.

5223 EXPANDING SOCIAL EMOTIONAL LEARNING PRACTICES
This course takes the concepts introduced in SEL 1 and builds upon them to focus on student self-management and emotional regulation, critical thinking and decision making, and developing connections and student relationships.

## 5233 SUSTAINING AND EVALUATING SOCIAL EMOTIONAL LEARNING PRACTICES

This course continues the focus on developing student relationship and collaboration skills that began in SEL 2. In addition, educators learn to assess the level and effectiveness of SEL implementation in their schools.

## 5793 CAPSTONE PROJECT

The Capstone Project allows participants to take what they have learned and apply it to an action research project, the publication of which will contribute to the field in their local, state, and/or national networks.

## 5803 SPECIAL TOPICS IN EDUCATION

This course is for special topics or studies in the field of education. This course is offered as needed.

## ELECTRICAL ENGINEERING (ELEC)

## 5123 COMMUNICATION SYSTEMS

Prerequisite: ELEC-3504 or equivalent to 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)

## 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 nonstationary 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

## 5333 ENGINEERING PROBABILITY \& INFERENCE

Topics in statistics with direct application to the solving of engineering problems. Inferential statistics including hypothesis tests, conference intervals, and design of experiments. Requires graduate standing.

## $5710 \quad$ 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

## FAMILY LIFE EDUCATION (FMLE)

## 5013 ISSUES IN FAMILY SCIENCE

This course examines current and classic literature in family science to engage understanding of the history and evolution of the family and to illustrate a variety of approaches to studying the family. Emphasis will be placed on the consideration of current research issues in the field of family science as well as the family's relationship
to other systems in society.
5023 PARENTING AND RELATIONSHIP EDUCATION
This course explores applications of theory and research about interpersonal relationships. Specifically, relationship form, process, and context will be examined. Special attention will be given to the role of parenting as an evolving relationship across the lifespan. Parenting and relationship support/intervention programs will be examined including content, delivery methods, and evaluation with emphasis placed upon implications of these programs for the families they are serving.

## 5033 FAMILY RESOURCE MANAGEMENT

Survey of current and classic personal and family resource management literature will be examined to provide an overview of how families develop and allocate resources to meet their goals. Particular emphasis will be put on the processes in which families engage a variety of resources to improve their quality of life. Topics include decision-making, stress management, finance management, and organization and building of skills for use of resources.

## 5043 FAMILY POLICY AND ADVOCACY

This will be a survey course examining policy and program impact on families. Emphasis will be placed on the process of policy making, including the development, implementation, and application of policy. The course will also focus on the role that family life educators have as advocates for family health and well-being. Specific attention will be given to family impact analyses, critiquing existing policy, and creating advocacy maps.

5053 PROGRAM DESIGN, IMPLEMENTATION, AND EVALUATION This course equips the student with skills and techniques essential for family life educators. The course will lead the student through the processes of family life educational programs and techniques of family life educators who will be working with individuals and families across a variety of settings to enhance preventative strategies addressing key issues of development and human relationships at each stage of the family life cycle. The course will focus on specific techniques related to design, implementation, and evaluation of family life education programs.

## 5713 FAMILY LIFE EDUCATION THESIS I

Research in an area of family science supervised by an advisor. Six hours required. This course is available for students seeking to pursue doctoral studies after completion of their current degree.

## 5723 FAMILY LIFE EDUCATION THESIS II

Research in an area of family science supervised by an advisor. Six hours required. This course is available for students seeking to pursue doctoral studies after completion of their current degree.

## 5913 FAMILY LIFE EDUCATION PRACTICUM I

This course is designed to provide students in the Family Life Education program with a supervised experience in the field. The purpose of this practicum experience is to facilitate students' growths in knowledge and expertise, as well as aid the students in the development of their personal theory of family education. This objective will be met through supervision of work and discussion or work issues with the supervisor and other students in class. (Minimum of 100 clock hours - will count toward CFLE requirements.)

## 5923 FAMILY LIFE EDUCATION PRACTICUM II

This course is designed to provide students in the Family Life Education program with a supervised experience in the field. The purpose of this practicum experience is to facilitate students' growths in knowledge and expertise, as well as aid the students in the development of their personal theory of family education. This objective will be met through supervision of work and discussion of work issues with the supervisor and other students in the class. (Minimum of 100 clock hours - will count toward CFLE requirements.)

## FINANCE (FINC)

5103 FINANCIAL MANAGEMENT
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; Acquirement 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 acquisition, 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)

## 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.

## 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 applications will be made to the work of the family life minister.

## 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.

## GUIDED STUDIES (GUID)

5003 GUIDED STUDIES (3 HOURS)
This course of study consists of academic research that advances toward a
comprehensive examination. The content of this course is determined by a faculty mentor in conjunction with the student and will be based on the individual student's professional and academic goals. The student must successfully complete a number of milestone assignments, determined by the faculty mentor, to demonstrate completion of this course of study. This course is available as a three-credit hour course (GUID-5713).

## 5006 GUIDED STUDIES (6 HOURS)

This course of study consists of academic research that advances toward a comprehensive examination. The content of this course is determined by a faculty mentor in conjunction with the student and will be based on the individual student's professional and academic goals. The student must successfully complete a number of milestone assignments, determined by the faculty mentor, to demonstrate completion of this course of study. This course is available as a six-credit hour course (GUID-5716).

## 5913 MENTORED MINISTRY STUDIES (3 HOURS)

This course of study consists of academic and ministry research. The content of this course is determined by a faculty mentor in conjunction with the student and will be based on the individual student's professional and academic goals. Students will be exposed to several areas of practical ministry in order to build confidence and familiarity with the various challenges and rewards of each. The student must successfully complete a number of milestone assignments, determined by the faculty mentor, to demonstrate completion of this course of study. This course is available as a three-credit hour course (MMIN-5913).

## 5916 MENTORED MINISTRY STUDIES (6 HOURS)

This course of study consists of academic and ministry research. The content of this course is determined by a faculty mentor in conjunction with the student and will be based on the individual student's professional and academic goals. Students will be exposed to several areas of practical ministry in order to build confidence and familiarity with the various challenges and rewards of each. The student must successfully complete a number of milestone assignments, determined by the faculty mentor, to demonstrate completion of this course of study. This course is available as a six credit hour course (MMIN-5916).

## HUMAN RESOURCES MANAGEMENT (HRMT)

## 5663 HUMAN RESOURCES MANAGEMENT

The course provides students with the basic principles and techniques of human resources 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: Students 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.

## HUMAN SCIENCES (HMSC)

5013 SYSTEMS THEORY
Survey, examination, and analysis of the epistemology and epigenesis of cybernetics within broader general systems theory, as the theoretical cornerstones for work with individuals, families, groups, organizations, and communities. Examines both classic and
current writings to develop the context for appropriate interpretation of the development of ideas and application related to family and community conceptualization, assessment, analysis, and full-spectrum interventions.

## 5023 FAMILY TRAUMA AND RESILIENCE

This course provides students with a comprehensive exploration of the psychological trauma field, including the history and current theories in the field, the nature of trauma (sexual abuse, combat, and natural disasters), and how trauma affects individuals and systems, grief reactions, and traumatic stress. Also included in this class is the exploration of the professional's response to trauma, vicarious traumatization, disenfranchised grief, crisis intervention, comorbid disorders, and general treatment issues. Death and dying processes are included as well. Finally, students have the chance to review evidence-based practices in the trauma field. A variety of theoretical frameworks are presented, including cognitive, neurobiological, clinical, historical, and socio-cultural (including main controversies surrounding the field of trauma). The instructor uses a culturally-informed perspective to teach the class.

## 5033 DEVELOPMENT AND DIVERSITY ACROSS THE LIFESPAN

This course provides an in-depth analysis of physical, cognitive, socioemotional, and spiritual development across the lifespan. Students will examine both classic and contemporary developmental theories and will be expected to evaluate processes of development in context while considering their own biases, values, and experiences. Students will devise intervention strategies with consideration of the influences of gender, religion, and culture on individual and family life.

## 5043 SEXUALITY AND THE FAMILY

This course covers the physio-biological, socioemotional, and spiritual aspects of human sexuality through examination of male and female sexual anatomy and physiology, development, and behavior, including the identification of sexual dysfunctions and disorders, issues related to sexual identities and gender dysphoria, and the impact of sexual issues on intimate relationships. These topics will be addressed alongside conversations regarding diversity, culture, and theological perspectives related to human sexuality.

## 5053 ETHICAL AND LEGAL ISSUES IN THE HUMAN SCIENCES

This course examines contemporary ethical, legal, and professional issues that guide the work of professionals in the human sciences. Students will be introduced to a framework of ethical decision-making to which they will apply state and federal law, alongside adherence to the standards of ethical practice from their area of specialization. This seminar format course will focus on specific ethical dilemmas in areas such as confidentiality, dual relationships, professional relationships, assessment, and research.

## 5063 RESEARCH METHODS IN THE HUMAN SCIENCES

This course in research methods prepares students to utilize the logic and critical thinking structures of the scientific method, research design, and qualitative and statistical analysis of data. These tools will help students better make sense of their world at the individual, family, community, and macro-levels and prepare them to make data informed decisions in order to affect needed changes within their own contexts. Students will engage in research over current issues connected to their own fields of study and areas of interest. The course is intended to provide a foundation from which the student may use the knowledge and practices gained in this course throughout the rest of their graduate program and beyond.

## INFORMATION SYSTEMS (INFO)

5303 BUSINESS INTELLIGENCE
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)

## 5413 INTERNATIONAL MANAGEMENT

This course is a study of the 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 FINC5153. 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 adaption, 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.

## LEADERSHIP (LDSH)

## 5013 LEADERSHIP THEORY AND PRACTICE

This course examines leadership's fundamental principles from a communication perspective and discusses how these principles are evident in politics, business, religious groups, and organizations. Emphasis is placed on understanding various approaches to leadership and how they might be practiced in the marketplace.

## 5023 LEADERSHIP AND ETHICS

Moral leadership challenges the usual definition of leadership. Moral leadership happens when individuals mobilize other people to make positive change in the world. Moral leadership is about mobilizing people to work together for positive change in the world - to do the iterative work of defining problems and experimenting, failing, and experimenting again to make progress toward solutions.

## 5793 LEADERSHIP CAPSTONE

This course consists of a research-based project. The learners will propose a project in collaboration with the faculty member in which the learner brings together into a final paper and presentation key insights learned about leadership. The project is to include both scholarly and practical elements and must be situated in the learner's context.

## MANAGEMENT (MGMT)

## 5603 MANAGERIAL ETHICS

This course examines the basic ethical issues involved in the conduct of business including both classical and biblical perspectives. Critical thinking of organizations as a spiritual, social, moral, and ethical activity is explored, as well as the ethical decision process.

## 5613 LEADER EFFECTIVENESS

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
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.

## MARKETING (MKTG)

## 5703 MARKETING MANAGEMENT

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.

## 5713 THE SALES PROCESS AND ETHICAL INFLUENCE

Sales is a master's level, marketing-track course aimed at educating professionals in the use of sales principles and techniques to ethically persuade and influence. Though part of the course provides insight into the selling profession, it essentially uses the sales process as a backdrop to train students in the process of selling and its application in numerous aspects of marketing and marketing management. Understanding the process has "transfer value" in terms of negotiations, copy-writing, interviewing, personal branding, leadership, and other areas. In essence, we are all selling something, whether products, ideas, or ourselves, and this course provides the skills to do so at an optimum level.

## 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.

## 5763 DIGITAL MARKETING

An in-depth study of the digital marketing arena, including analytics, On-site SEO, Offsite, SEO, paid search, display advertising, email marketing, social media marketing, and online reputation management.

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.

## MARRIAGE AND FAMILY THERAPY (MFTH)

## 5013 THEORETICAL MODELS OF THE FAMILY

This course is designed to introduce students to the major theoretical approaches to marriage and family therapy (MFT). A significant focus of this course will be on: 1) cognitively/intellectually scaffolding the essential stages, stances, methods, and assessment processes for each major model and 2) clinically mastering the practical therapeutic approaches and interventions of each major model. Additional focus will be on interviewing, hypothesizing, assessment, and clinical practice issues central to an overall systemic approach to MFT. Students will have the opportunity to role play in class and be in the role of therapist, family member, and consulting team members incorporating the lectures and readings into practiced skill. Additionally, this course will challenge students to look closely at their own family of origin. Students will be
expected to draw on their previous experiences, coursework, and knowledge to integrate and apply course materials to their clinical work.

## 5023 BASIC THERAPY SKILLS

Introductory, skills-based course where students learn the practical aspects of doing systemic family therapy. The course presumes no background as a therapist and aims to provide skills in conducting interviews with individuals, as well as couples and families, making initial assessments and learning to manage a professional practice. In addition, the course will focus on the role of personal values, beliefs, and interpersonal style in the work of psychotherapy. This course is structured as a fundamental counseling skills course, with the basic purpose of developing relationships building, goal setting, selecting client-aligned interventions, and evaluation of client outcomes as observed in the University clinic, video cases, or other resources.

## 5033 FAMILY AND INDIVIDUAL ASSESSMENT

This course focuses on the concepts and tools of assessment in the mental health field, particularly family therapy. We will be looking at how family processes may be assessed from a variety of contexts - for example, systemic, developmental, marital, and behavioral - the different models for assessing family functioning, and some of the individual and family assessment instruments that are used. Students will obtain both a theoretical and practical understanding of the uses and limitations of various approaches to the clinical assessment of individuals, couples, and families. The goal of the course is to allow students to acquire an appreciation for the varying philosophies underlying assessment, relevant assessment concepts, various sources of appraisal information, and contextual interpretation of assessment data, including the influence of cultural and social diversity on testing, and to expose students to many of the tests in use today.

5043 PSYCHOPATHOLOGY AND PSYCHOPHARMACOLOGY
This course is designed to prepare students for a two-fold process: 1) making sense of the emergence and expression of human psychopathology across the lifespan and within biopsychosocial spiritual framework and 2) examining the neurochemical, physiological, and behavioral effects of the major classes of psychopharmacology can be understood as a set of developmental static entities. Rather, patterns of maladjustment that we often refer to as psychopathological almost always emerge from the complex transactions between biological vulnerabilities (genetic, neural, hormonal) and environmental risk factors (family coercion, deviant peer group affiliations, neighborhood criminality) over time. Thus, psychopathology occurs in a developing individual, and his or her personal relationships, and cannot be defined, identified, or understood without consideration of the normal course of development. The course assistant therapist in understanding their role in working with medical professionals in the concurrent treatment of mental health issues being an interdisciplinary approach. A comprehensive understanding of the Diagnostic Statistical Manual of Mental Disorders and complementary drug classes and approaches for medication regimens should be achieved by completion of this course.

5053 CHILD AND ADOLESCENT THERAPY
This course is a didactic and experiential course that prepares therapists to work with the special needs, qualities, and developmental levels of children and adolescents. This course will focus on developmental needs, specific therapeutic interventions, and common emotional issues of children and adolescents. Group and individual counseling techniques will be practiced and treatment options covered.

## 5063 COUPLES TREATMENT AND CONTEMPORARY ISSUES IN MARRIAGE AND FAMILY THERAPY

This course is designed to strengthen knowledge and critical skills in two areas: 1) focus on assessment of couples and the systemic interventions available to address common couple issues. Pre-marriage, divorce and remarriage, sexuality, domestic violence, infidelity, and gender, and 2) contemporary issues in marriage and family therapy designed to enhance the role of the therapist as citizen and advocate, the role of marriage and family therapists within a contemporary society and Christian churches, telehealth and virtual therapy, medical family therapy, and other careers suited for marriage and family therapy training, and marriage and family therapy contemporary issues, such as reimbursement, financial aspects of practice, and more.

## 5713 MARRIAGE AND FAMILY THERAPY PRACTICUM I

Ongoing supervision is required of all marriage and family therapy students in clinical practice at the OC campus clinic and/or any practicum site ( 50 to 100 hours). This meets the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) requirements that students receive ongoing supervision of their clinical work from a qualified MFT supervisor. It also meets the practice requirements of OC MFT graduate programs. Throughout students' clinical practice, they will be assigned a group supervisor. The majority of supervision (at least 50\%) must be based on raw data (i.e., live observation, electronic recordings of sessions with clients, etc.). The course syllabus serves as a contract between the student, the program, and the group supervisor. The purpose of the practicum is to facilitate students' growth in clinical knowledge and expertise, as well as aid the student in the development of their personal theory of change. This objective will be met through supervision of therapy and discussion of therapy issues with the supervisor and other students in the class. A minimum of 300 clock hours is
required for Oklahoma Licensure.

## 5723 MARRIAGE AND FAMILY THERAPY PRACTICUM II

Ongoing supervision is required of all marriage and family therapy students in clinical practice at the OC campus clinic and/or any practicum site ( 50 to 100 hours). This meets the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) requirements that students receive ongoing supervision of their clinical work from a qualified MFT supervisor. It also meets the practice requirements of OC MFT graduate programs. Throughout students' clinical practice, they will be assigned a group supervisor. The majority of supervision (at least $50 \%$ ) must be based on raw data (i.e., live observation, electronic recordings of sessions with clients, etc.). The course syllabus serves as a contract between the student, the program, and the group supervisor. The purpose of the practicum is to facilitate students' growth in clinical knowledge and expertise, as well as aid the student in the development of their personal theory of change. This objective will be met through supervision of therapy and discussion of therapy issues with the supervisor and other students in the class. A minimum of 300 clock hours is required for Oklahoma Licensure.

## 5730 CONTINUING PRACTICUM

Ongoing supervision is required of all marriage and family therapy students in clinical practice at the OC campus clinic and/or any practicum site ( 100 to 200 hours). This meets the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) requirements that students receive ongoing supervision of their clinical work from a qualified MFT supervisor. It also meets the practice requirements of OC MFT graduate programs. Throughout students' clinical practice, they will be assigned a group supervisor. The majority of supervision (at least $50 \%$ ) must be based on raw data (i.e., live observation, electronic recordings of sessions with clients, etc.). The course syllabus serves as a contract between the student, the program, and the group supervisor. The purpose of the practicum is to facilitate students' growth in clinical knowledge and expertise, as well as aid the student in the development of their personal theory of change. This objective will be met through supervision of therapy and discussion of therapy issues with the supervisor and other students in the class. A minimum of 300 clock hours is required for Oklahoma Licensure.

## 5933 MARRIAGE AND FAMILY THERAPY CAPSTONE

The capstone course serves as the culmination of OC's MFT degree program. In this course, students synthesize clinical theory, skills, ethics, and research-based analysis to address various vignettes and scenarios. Coursework will include a signature assignment focused on MFT proficiency in licensure preparation and clinical work. A mock exam day will be administered. A portfolio will be compiled and a presentation regarding their theoretical orientation (personal clinical theory of change) when approaching work with individuals, couples, and families will be presented to a jury of faculty and/or administrators. Students' capstone presentations and portfolios will be reviewed by the primary faculty advisor at the conclusion of coursework and may serve as a tool for further research and/or practice. The capstone course serves to assess the student achievement of all MFT program learning outcomes.

## MATHEMATICS (MATH)

## 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 MATH5313

## 5513 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)

## 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.

## 5153 PRINCIPLES OF ADDITIVE MANUFACTURING

A study of the basic principles of additive manufacturing (3D printing), focused heavily on practical engineering applications and hands-on projects. Polymer, metal, composite, and ceramic additive manufacturing technologies will be explored, including material properties, advantages and disadvantages, and identification of engineering applications. Introduction to design and redesign for additive manufacturing, industrial applications, and the future of additive manufacturing. Lecture -3 hours.

## 5523 FINITE ELEMENT ANALYSIS

Prerequisite: MECH-4123 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 2dimensional 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.

5533 VIBRATION THEORY \& APPLICATION
A study of free and forced vibration of both single and multiple degree-of-freedom
mechanical and structural systems with and without damping, design of vibration isolators and absorbers, and shock spectrums. Students cannot receive credit for both MECH-4533 and MECH-5533.

## 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, nanomaterials, 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.

## THEOLOGY (THEO)

## 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.

## 5043 INTRODUCTION TO BIBLICAL AND THEOLOGICAL RESEARCH

This course is designed to prepare learners for graduate-level biblical and theological studies by developing them as critical thinkers, careful readers, effective researchers, skillful writers, and compelling presenters. It also provides the student with an opportunity to become acquainted with the content of the biblical text and to demonstrate knowledge of the text through examination.

5133 CHRISTIAN EVIDENCES FOR MINISTRY
In Christian Evidences for Ministry students will master several of the key arguments for the existence of God and the Christian faith. They will also work through some of the key objections to faith, and some effective ways to respond to those objections.

## 2021 FALL SEMESTER

| August 5 | Monday |
| :--- | :--- |
| August 13 | Friday |
| August 13 | Friday |
| September 17 | Friday |
| September 20-23 | Monday-Thursday |
| Setember 27 | Monday |
| September 28 | Tuesday |
| October 4 | Monday |
| October 8 | Friday |
| October 8 | Friday |
| November 12 | Friday |
| November 15-18 | Monday-Thursday |
| November 19 | Friday |
| November 23 | Tuesday |

Term I classes begin for the Fall 2021 semester
Last day for new enrollment and/or to add Term I classes
Last day to drop a Term I class without a "W" on the transcript
Last day to withdraw or drop a Term I class with a "W" on the transcript
Term I final exam week
Graduate student pre-enrollment begins
Final grades for Term I classes due at noon
Term II classes begin for the Fall 2021 semester
Last day for new enrollment and/or to add Term II classes
Last day to drop a Term II class without a "W" on the transcript
Last day to withdraw or drop a Term II class with a "W" on the transcript
Term II final exam week
Commencement
Final grades for Term II classes due at noon

Winter Term begins
Last day for new enrollment and/or to add a Winter Term class
Thanksgiving Break (No Classes)
Last day to drop a Winter Term I class without a "W" on the transcript
Christmas Break (No Classes)
Last day to withdraw or drop a Winter Term I class with a "W" on the transcript
Winter Term final exam week
Final grades for Winter Term classes due at noon

## 2022 SPRING SEMESTER

| January 10 | Monday |
| :--- | :--- |
| January 14 | Friday |
| January 14 | Friday |
| January 17 | Monday |
| February 18 | Friday |
| February 21-24 | Monday-Thursday |
| March 1 | Tuesday |
| March 7 | Monday |
| March 11 | Friday |
| March 11 | Friday |
| March 28 | Monday |
| April 22 | Friday |
| April 25-28 | Monday-Thursday |
| April 29 | Friday |
| May 3 | Tuesday |

## 2022 SUMMER SEMESTER

| May 2 | Monday |
| :--- | :--- |
| May 6 | Friday |
| May 6 | Friday |
| May 30 | Monday |
| June 10 | Friday |
| June 13-16 | Monday-Thursday |
| June 20 | Monday |
| June 21 | Tuesday |
| June 24 | Friday |
| June 24 | Friday |
| July 4 | Monday |
| July 29 | Friday |
| August 1-3 | Monday-Wednesday |
| August 9 | Tuesday |

Term I classes begin for the Summer 2022 semester Last day for new enrollment and/or to add a Term I class Last day to drop a Term I class without a "W" on the transcript Memorial Day (OC Closed)
Last day to withdraw or to drop a Term I class with a "W" on the transcript
Term I final exam week
Term II classes begin for the Summer 2022 semester
Final grades for Term I classes due at noon
Last day for new enrollment and/or to add a Term II class
Last day to drop a Term II class without a "W" on the transcript Independence Day (OC Closed)
Last day to withdraw or to drop a Term II class with a "W" on the transcript
Term II final exam week
Final grades for Term II classes due at noon

Term I classes begin for the Spring 2022 semester
Last day for new enrollment and/or to add a Term I class
Last day to drop a Term I class without a "W" on the transcript
Martin Luther King Jr. Day (OC closed)
Last day to withdraw or to drop a Term I class with a "W" on the transcript
Term I final exam week
Final grades for Term I classes due at noon
Term II classes begin for the Spring 2022 semester
Last day for new enrollment and/or to add a Term II class
Last day to drop a Term II class without a "W" on the transcript
Graduate student pre-enrollment begins
Last day to withdraw or drop a Term II class with a "W" on the transcript
Term II final exam week
Commencement
Final grades for Term II classes due at noon


[^0]:    Basic Therapy Skills
    Family and Individual Assessment
    Psychopathology and Psychopharmacology
    Child and Adolescent Therapy
    Couples Treatment and Contemporary Issues in Marriage and Family Therapy
    Marriage and Family Therapy Practicum I
    Marriage and Family Therapy Practicum II

