



Undergraduate Academic Catalog  
2010-2011



OKLAHOMA CHRISTIAN UNIVERSITY

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**OKLAHOMA CHRISTIAN UNIVERSITY**

[www.oc.edu](http://www.oc.edu) 800.877.5010

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## OKLAHOMA CHRISTIAN AT A GLANCE

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

The university is a comprehensive institution of serious academic inquiry grounded deeply in the liberal arts and the Christian faith, while also providing excellent professional, pre-professional, and graduate programs. It is affiliated with the churches of Christ, but students of all faiths are most welcome. The full-time faculty and a majority of students are members of the churches of Christ. The university enrolls more than 2,000 students.

### DEGREE PROGRAMS

Oklahoma Christian offers degree programs in:

- |                    |                        |                          |                          |
|--------------------|------------------------|--------------------------|--------------------------|
| • Art & Design     | • Business             | • Electrical Engineering | • Mechanical Engineering |
| • Biblical Studies | • Chemistry            | • Family Studies         | • Music                  |
| • Biology          | • Communication        | • History                | • Nursing                |
|                    | • Computer Engineering | • Information Sciences   | • Physical Education     |
|                    | • Computer Science     | • Language & Literature  | • Political Science      |
|                    | • Education            | • Mathematics            | • Psychology             |

The university offers Master of Divinity and Master of Arts degrees, with majors in general ministry, family life ministry, youth ministry; a Master of Business Administration degree; and a Master of Science in Engineering degree. For information on the graduate programs, please request a graduate catalog or visit our website: <http://www.oc.edu>.

## ACCREDITATION

Oklahoma Christian is accredited by:

The Higher Learning Commission of the North Central Association of Colleges and Schools  
30 North LaSalle Street, Suite 2400  
Chicago, IL 60602-2504  
(800) 621-7440  
[www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)

### Additional Accreditations:

- The university is approved by the Oklahoma State Department of Education to recommend students for teacher certification. The teacher education programs are accredited by the National

Council for the Accreditation of Teacher Education (NCATE).

- The music programs are accredited by the National Association of Schools of Music (NASM).
- The undergraduate and graduate business programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP).
- The mechanical, electrical, and computer engineering degree programs are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.
- The nursing program is accredited by the Commission of Collegiate Nursing Education (CCNE).

**Equal Opportunity Statement:**

In compliance with Title VI and Title VII of the Civil Rights Act of 1964, Executive Order 246 as amended, Title IX of The Education Amendments of 1972, Sections 503 and 504 of The Rehabilitation Act of 1973, the Americans With Disabilities Act of 1990, the Family and Medical Leave Act of 1993, the Civil Rights Act of 1999, and other Federal Laws and Regulations, Oklahoma Christian University does not discriminate on the basis of race, color, national origin, sex, age, handicap, disability, or status as a veteran in any of its policies, practices, or procedures; this includes but is not limited to admissions, employment, financial aid, and educational services. The designated coordinator is Mr. Jeff Bingham, Vice President, at (405) 425-5180, 2501 E. Memorial Road, Edmond, Oklahoma 73013.

*This catalog contains official announcements of courses for the 2010-2011 academic year. Oklahoma Christian reserves the right to repeat, change, or amend the rules, regulations, and provisions contained in this catalog and may withdraw or modify the programs and courses described.*



## A MESSAGE FROM THE PRESIDENT

Welcome to Oklahoma Christian University! Your decision to attend OC shows that you are seeking an education that is beyond the ordinary. Where you attend college—just like your choice of friends, will shape the rest of your life.

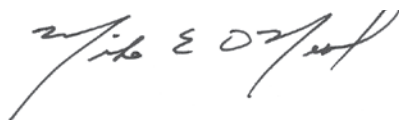
Our goal at OC is to prepare you academically, socially and spiritually for an effective life of service to your family, your profession, your community, and your church. Our scholarly and dedicated faculty want to know you as a person and will take a personal interest in your education and your spiritual life. The academics are rigorous and you will be challenged to do your best, along with developing lifelong relationships. The academic achievements of our students and alumni are astounding and you have the opportunity to add to that legacy of excellence.

The Christian environment at OC provides an exceptional opportunity for you to grow as an individual and a Christian, studying with Christian professors and fellow students who share our love of the Lord. Please take advantage of the many extracurricular activities available on campus. Whether you're bonding with fellow students in social clubs, enjoying weekly Bible studies, supporting our excellent intercollegiate sports teams, or participating in intramural sports, you will find that these activities will enrich your university experience.

I promise you that if you apply yourself to learning and growing, Oklahoma Christian University will provide you with the solid holistic foundation for an extraordinary life.

Again, welcome to OC. We are excited that you have chosen to become part of the OC family and look forward to watching you identify and magnify the gifts God has given you to make a difference in our world and to glorify our Heavenly Father.

Best wishes,



Mike E. O'Neal



## DEFINING VALUES

Oklahoma Christian University is a distinctly Christian community of higher learning and higher calling, valuing:

FAITH SCHOLARSHIP INTEGRITY  
STEWARDSHIP LIBERTY LEADERSHIP

### FAITH

The University affirms that God exists, that He is the author and sustainer of our lives, that the Bible is the inspired revelation of God's will, and that He has manifested His love, His power, and His grace in the incarnation of Jesus, the Christ. OC's Christian worldview, grounded in a humble and honest search for truth, is integral to and nurtures every discipline and every activity. It is faith that opens the mind to the consideration of ultimate truths and empowers the quest for goodness. The spirit of Christ transforms members of the University community for lives of faith, purpose, resilience, service, relationship, and love of all humankind. The University cherishes its vital relationship with the founding fellowship of the churches of Christ, while also welcoming and nurturing students from various walks of faith.

### SCHOLARSHIP

The University affirms that God is the author of, and sovereign over, all creation; that truth has nothing to fear from honest inquiry; that ideas can and should be examined openly and respectfully; that reason is a gift of God; and that faith and learning are inseparable. The University cherishes and cultivates the mind to discover the truths of God's word and, therefore, encourages excellence, diligence, critical thinking, and creativity in all scholarly endeavors. The University is committed to a strong liberal arts core at the heart of the curriculum and to excellent professional preparation in all offered academic disciplines.

### INTEGRITY

The University affirms that, absent integrity, all other values lose their power for transformation and for goodness. Integrity demands vigilant and undivided devotion to truth, honesty, genuineness, transparency, and wholeness, as well as commitment and strength to act upon truth as it is discovered. Integrity is not solely a matter of the intellect, but encompasses development of the whole person—mind, soul, and body—and requires a climate of civility and respect for all people and their search for truth.

### STEWARDSHIP

The University affirms that God is the source of all its human, financial, and physical resources that His servants and providence have made available to the University to use prudently to further its mission. Because the University community reflects the love of God for all people, students, faculty, staff, and alumni will apply their God-given gifts and their learning to serving others, thus contributing to a better world. The University's commitment to honor God demands that its people and its programs pursue excellence in everything. The University will engage superior faculty and staff,

embrace effective practices, attract quality students, and provide necessary resources and environment for excellence to flourish. The University will be a competitive and considerate employer regarding compensation, benefits, morale and support for families.

### LIBERTY

The University cherishes the principles of religious, intellectual, social, economic, and political freedom that are blessings from our Creator and upon which this nation was founded. Freedom is purposeful selection of that which is true, noble, right, pure, lovely, and admirable. As an integral part of its educational mission, the University seeks to uphold, teach, and strengthen values which undergird liberty, free enterprise, and servant-leadership. As the University seeks to engage the culture and share the blessings of the Christian faith and liberty with the community and the world, it cultivates a global perspective and prepares students for life in a complex, demanding, and changing global community.

### LEADERSHIP

The University affirms the value of preparing and encouraging leaders to use their talents and abilities in service to others. We believe the cultivation of servant leaders has a profound and lasting impact on individuals, families, communities, and nations. The University is committed to providing classes, symposia and other resources that help individuals to identify their God-given gifts and equip them to exercise those gifts to promote Christian principles of peace, compassion, and equality. We believe that effective leaders must possess a global perspective informed by a rigorous liberal arts education rooted in Biblical understanding. The University will seek to collaborate with like-minded individuals and organizations dedicated to developing leaders of character, vision and courage.

### PURPOSE/MISSION

The University's purpose is to transform lives for Christian faith, scholarship, and service.

### VISION STATEMENT

Academically Excellent – Spiritually Vibrant – Serving Faithfully  
The manifestations of this vision are:

### SEARCH FOR TRUTH

The University is rooted in the great Christian intellectual tradition which demands rigorous scholarship, critical thinking, academic freedom, and spiritual freedom, and in which ideas are examined openly, with humility, and with a view to finding, embracing, and living that which is true and good. It is a place where the profound questions of life are asked and answers are sought. On most issues, OC seeks to be a "convener," not an "endorser," to bring together thoughtful people about ideas and to facilitate discussions informed by a Christian worldview. We are about effective faith-informed spiritual service, not mere orthodoxy.

### FAITHFULNESS

We are motivated by a "higher calling." Christian faithfulness and service are at the heart of the University community. Our lives model Christian servanthood, stewardship, humility, and love as we seek to rely upon and glorify God in all we do. We cherish and are deeply

committed to the vital relationship with the founding fellowship of the churches of Christ, while also welcoming and nurturing students from various walks of faith. OC serves and is a resource for the Christian community. The University prepares students for Christ-centered lives of service.

### **EXCELLENCE WITH PURPOSE**

In everything, the University honors God and demands excellence from its faculty, staff, students, and programs. Academic and spiritual excellence is manifested through service we render to one another, to our community, and to the world. OC's students and alumni are salt and light who make a difference in the world. They are prepared for professional and vocational leadership with a thorough grounding in extensive learning opportunities which enables them to live faithfully and productively in a rapidly changing world.

### **GLOBAL ENGAGEMENT**

Faculty and staff engage meaningfully with their students, their disciplines, and community. We seek to apply our gifts and learning to "do justice, to love mercy, and to walk humbly with our God," producing alumni who contribute to a better world. The University has the "imprint of the world on its heart," and seeks to share the blessings of Christian faith and liberty with everyone.

### **STEWARDSHIP OF HUMAN AND CAPITAL RESOURCES**

The University attracts and empowers superior faculty and staff, educates and mentors quality students, employs effective practices, exercises prudent stewardship of resources, and creates an environment in which excellence, creativity, and community will flourish. All people are loved and affirmed as God's creation regardless of background and status. The University seeks to achieve an endowment commensurate with its aspirations.

### **TRANSFORMED LIVES**

Intellectual and spiritual maturity is rigorously pursued. The spirit of Christ transforms members of the University community for lives of faith, purpose, meaningful relationships, integrity, service, leadership, stewardship, personal responsibility, love of others, nobility, and resilience. The gift of education calls, ultimately, for a life of service. OC people seek to do what is right in the eyes of the Lord and live in total reliance upon Him.

## **THE OKLAHOMA CHRISTIAN COVENANT**

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

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

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

### **OUR FOUNDATION**

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

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

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

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

### **OUR CALL**

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

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

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

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

### **OUR COMMUNITY LIFE**

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

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

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

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

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

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

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

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

## THE OC GRADUATE

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

### THE OC GRADUATE KNOWS ...

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

### THE OC GRADUATE IS ...

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

### THE OC GRADUATE BELIEVES ...

- The Bible is the revelation of the nature and will of God, the

incarnation of the Son, and the work of the Holy Spirit, and is the authority for Christian faith and practice.

- Life has meaning only through a relationship with God, recognizing that the pursuit of knowledge in any field is ultimately a quest for understanding of God and His creation.
- Faith and learning are integral and cannot be separated with impunity.

### THE OC GRADUATE LIVES ...

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

## CAPSULE INFORMATION

Additional information on these subjects is included throughout the catalog. Please see the Table of Contents and the Index.

### Admission

See page 22 for details about admission for high school graduates, transfers from other colleges and universities, and international students.

### Financial Aid

More than 95 percent of all students receive aid in loans, grants, scholarships, or work-study jobs. Eligibility for federal aid is determined by the Free Application for Federal Student Aid.

### Academic Year

The year is divided into semesters. Courses are credited in semester hours. The semesters last from August to December and from January to April. A summer term also runs from May to August.

### Faculty

The Oklahoma City campus employs 113 full-time faculty. Nearly 80% of the full-time faculty hold or are working on the earned doctorate degree or terminal degree.

### 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.

### Jobs

Many students work on campus. Off-campus jobs are available in the metro area and at shopping centers and businesses near the campus.

### University Career Services

The OC Career Services Office offers students assistance in exploring majors and career options and in finding internships



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

## A CHRISTIAN COMMUNITY

A great spiritual benefit of attending OC is associating with Christian friends, faculty, and staff. Activities like those below contribute to the Christian nature of the campus.

### Chapel

The campus meets Monday through Friday at 11 am for Chapel in Hardeman Auditorium. There also are periodic specialized chapels focusing on missions, women's issues, departmental chapels, spiritual search, and other specific topics. Chapel has been a valued OC tradition from the first days of the university. It provides a time to focus on our Creator, worship together as a community, deepen faith, and seek inspiration. Attendance is required for all full-time students, as is an atmosphere of respect for God and each other.

### Devotionals

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

### Local Congregations

Congregations throughout the Oklahoma City area will welcome you to work and worship with them. Several nearby congregations have special teaching, fellowship, and work programs especially for OC students. Many congregations also have "adoption" programs that connect students with local families.

### Missions

Many students participate in mission efforts. Groups organize early in the academic year to learn the language and customs of the country to be visited and to prepare for teaching others.

In the past, groups have gone to Germany, Belgium, Brazil, Russia, Japan, Korea, the Philippines, South Africa, Switzerland, Poland, Portugal, England, Wales, Scotland, Austria, Greece, Guatemala, Hungary, Ireland, Romania, Singapore, Australia, New Zealand, Mexico, Rwanda, and Honduras, as well as parts of the United States.

## CASCADE COLLEGE

In August 1994, OC opened Cascade College, in Portland, Oregon. Cascade College was closed in May, 2009. Oklahoma Christian University became the official repository for Cascade College, Columbia Christian College, Baker College, and Magic Valley Christian College. Academic records for these colleges may be acquired by contacting the Registrar's Office at Oklahoma Christian University.

## INTERNATIONAL PROGRAMS

Oklahoma Christian offers a variety of programs that allow students to enrich their educational experience by studying in and learning about countries around the world.

### Study Abroad

Study Abroad programs offer the unique opportunity for OC students to meet academic requirements while experiencing other countries and cultures firsthand. Students travel together to countries throughout Europe, the Pacific Rim, and Latin America.

### International Students

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

### Language and Culture Institute

The Language and Culture Institute (LCI) provides intensive English courses for non-native English speakers who wish to improve language skills in order to enter the university. LCI also provides language and culture classes for exchange students and international professionals.

## OKLAHOMA CITY

Oklahoma City offers jobs, entertainment, cultural events, and restaurants typical of a major city. The Oklahoma City Zoo, the Oklahoma City Philharmonic Orchestra, the Oklahoma City Museum of Art, 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, the Ford Center, the Cox Convention Center, the state capitol complex, and network television stations are all in the metro area, which has a population of approximately one million people.

## THE FRESHMAN YEAR

The Office of Student Life will assist you with your transition into university life.

### Take Flight

Several times each summer, OC offers orientation to all incoming students. This orientation is designed to help you understand the nature of college academics and to aid you in enrolling for your first college semester.

### Take Flight

In addition to New Student Orientation, new students are required to attend Earn Your Wings the week before classes start in the fall. Earn Your Wings is an orientation to campus life presented by upperclassmen. The purpose of this week is to build relationships, develop university pride and unity, and gain an understanding of OC's mission.

## 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 CD-ROMs. Because the online catalog and databases are linked from the library's website, you have access to online research from your laptop anywhere.

The library is committed to expanding its access to electronic resources as well as the more traditional services. The library faculty works with academic departments to complement specific courses. Individual reference assistance is provided at the library and also by e-mail or phone.

## MOBILE COMPUTING PROGRAM

OC was the first university in Oklahoma and the first university associated with churches of Christ to implement a wireless laptop program. Thanks to a partnership with Apple, full-time undergraduate students receive Apple MacBook computers, their choice of an iPhone or iPod touch, and wireless access to the campus network and the Internet. You will automatically be assigned a network login account and e-mail address that can be used throughout your career at OC.

The mobile computing program ensures that all students have equal access to technology, allows for increased collaboration among students and the faculty, improves access to online student services, and allows students greater flexibility than is available with a desktop computer in a laboratory. If certain requirements are met, you may be able to take the MacBook home with you for the summer. The mobile computing program provides full access to the tools of the information age and encourages students to develop technological literacy that enhances the value of any degree program.

## ATHLETICS

OC is a member of the National Association of Intercollegiate Athletics (NAIA) and participates in 13 varsity sports. In addition to the university's varsity and junior varsity programs, OC also offers all students the opportunity to participate in intramural sports.

Men's varsity programs include:

- Baseball
- Basketball
- Cross Country
- Golf
- Soccer
- Tennis
- Track and Field (Indoor and Outdoor)

Women's varsity programs include:

- Basketball
- Cross Country
- Soccer
- Softball
- Tennis
- Track and Field (Indoor and Outdoor)

The varsity cheerleaders support the Eagle and Lady Eagle teams.

### Intramural Activities

Intramural competition is offered in basketball, flag football, soccer, softball, and volleyball. Competition is also offered in many other activities, including cross country, golf, pool, swimming, table tennis, tennis, and track and field. Most intramural activities are open to all students, not just those in social service clubs.

## REGULATIONS

The Student Handbook, located on the OC Intranet, myOC, details the principal rules and policies relating to student life.

The university does not permit alcohol or illegal drug usage or possession. Sexual promiscuity in any form is not tolerated. Curfew and visitation regulations are enforced, as well as proper sign out for overnight visits. You are expected to dress modestly at all times. You should consult the Student Handbook concerning student life policies.

Violations of university regulations may result in disciplinary action up to and including dismissal. To request a Student Handbook, contact the Office of Student Life.

## HOUSING

### Residence Halls

One of OC's rich heritages is the benefit you will gain from living on a residential campus in an environment where positive Christian principles are encouraged. Friendships are formed from the moment you move into the residence hall that last a lifetime. All housing areas are staffed by men and women who serve as role models and mentors. Service activities and planned events help you make practical application of principles learned in the academic arena.

Laundry facilities are available to you anytime during the day or night.

Requests for particular apartments or roommates should be made on the housing request form. Whenever possible, requests are honored. These requests are processed on a first-come, first-served basis.

Students are held responsible for damages incurred in the facilities during the period of residence.

### University Residence Halls

Eleven residence halls house primarily freshmen and sophomores. You may reserve a space by completing a housing application and sending a \$100 deposit to the Admissions Office. If you decide not to attend OC, \$90 will be refunded to you if a written request is received in the Office of Residence Life by May 15.

## University Village

Six apartment complexes house married students, juniors, and seniors. University apartments include one-, two-, and four-bedroom apartments conveniently located on the OC campus. Choices vary from semi-private to private bedrooms. Furnished apartments are available for single students, but the units for married and non-traditional students are unfurnished. For a single student to qualify, you must be a junior or senior, have a cumulative 2.0 grade point average (GPA), and have no disciplinary problems. Final approval is made by the Office of Student Life.

Single students may reserve apartment housing by sending a housing request form and a \$150 deposit to the housing office in the Nowlin Center. The deposit is refundable if a written request is received in the apartment housing office by May 15.

Married students and non-traditional students may reserve a position on a waiting list for residential placement by requesting an application from the apartment management. Placement of the applicant is contingent upon availability. The application fee is \$50, which will be credited toward the total \$150 security deposit. The deposit is refundable if the apartment management receives a written cancellation notice at least 30 days before the documented date of termination of housing.

## STUDENT LIFE

The Office of Student Life will help you make the transition to university life and will support you as you pursue your academic and co-curricular goals. Details on the services offered are as follows:

### Health and Wellness Center

OC's Health and Wellness Center is located on the west side of the Gaylord University Center and houses medical and counseling services. The center is open from 8 am to 11 am and from 1 pm to 5 pm Monday through Friday. The center's medical and mental health professionals adhere to the concept of lifelong wellness and promote the ideal of optimal health for each member of the university community. The center provides medical, mental health and wellness services, and education, as well as assessment and screening activities to support and encourage students and other members of the campus community to take personal responsibility for developing healthy attitudes and behaviors in all areas of their lives.

### Student Counseling Services (SCS)

SCS provides short-term counseling services to OC students and to faculty, staff, and their families. Services are individualized and solution-focused and adhere to Christian principles to support the university's goal of preparing individuals for lifelong Christian leadership and service. Services are available to help individuals address concerns such as adjustment to university life, depression, anxiety, stress, time management, relationship problems, social skills, anger, and grief. Premarital, marital, and family counseling services are also provided. Services are available Monday through Friday from 9 am to 11 am, and from 1 pm to 5 pm by appointment.

SCS emphasizes screenings and education throughout the year and encourages students to take advantage of workshop and group activities. Short-term, individualized, and solution-focused

counseling is provided for common concerns such as depression, anxiety, self-image, alcohol, and drug use. For students needing more extensive services, SCS makes referrals to professionals in the area. After hours, a counselor can be reached by contacting a Hall Director or Security.

SCS does not charge for short-term counseling services. A fee of \$20 per session is charged if more than six sessions are used. There is an additional charge for testing. A fee of \$40 per session is charged for counseling services for faculty, staff, and their families. All services provided by SCS are confidential. Each staff member adheres to a professional code of ethics to assure each person of the highest ethical conduct and confidentiality as defined by law. If services needed by the student are beyond the scope of SCS services, appropriate referrals are made to professionals in the area.

### Student Medical Services

Health services are provided in the Health and Wellness Center on a walk-in basis by registered nurses. Nurses are available Monday through Friday from 8 am to 10 am, and from 1 pm to 4 pm. Nursing services are provided on a first-come, first-served basis, except in the event of an emergency. There generally is no charge for nursing services. A minimal office fee is charged for more involved or lengthy procedures. After hours, a nurse can be reached in emergencies by contacting a Hall Director or Security.

The university also provides physician services on an appointment basis. Appointments can be scheduled by coming to or calling the Health and Wellness Center. If you are unable to keep a scheduled appointment, you are expected to cancel the appointment in advance. Failure to cancel appointments will result in a \$10 service charge.

If you are enrolled in nine or more hours, you are required to provide proof of medical insurance coverage each fall. If you do not have your own coverage, you will be enrolled in the OC student insurance program. Insurance also is available for spouses and children.

### Campus Security

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

### Bookstore

The campus bookstore in the Gaylord University Center sells textbooks, academic supplies, toiletries, gifts, greeting cards, and a wide variety of other merchandise.

### Mail Service

The campus mail service in the Gaylord University Center and at the Nowlin Center provides mailboxes for students. Mail is delivered, packages picked up, and mail sent out from these locations. A mail drop also is provided in the Benson Administration Building. Packages can be mailed at the outgoing mail center located in the Gaylord University Center.

### 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; fitness centers in

some on-campus housing facilities; and pool and ping-pong tables in the Gaylord University Center.

## ORGANIZATIONS

### Social Service Clubs

Social service clubs provide social activities, service projects, and the benefits of group membership. Through their clubs, many students may participate in Homecoming activities, service projects, intramural sports, and Spring Sing.

### Academic Organizations

Student academic organizations include:

- Accounting Club
- Alpha Chi, a national honor society that honors students with high academic standing. Membership is limited to the top 10% percent of juniors and seniors in the university.
- Alpha Epsilon Rho, the national honorary broadcasting society
- Alpha Psi Omega, a theater organization
- American Chemical Society
- American Marketing Association
- American Society of Interior Designers
- Delta Mu Delta, the national Business Administration honor society
- Institute of Electrical and Electronics Engineers, Inc.
- Oklahoma Broadcasting Education Association student chapter
- Phi Alpha Theta, an international history fraternity
- Phi Lambda Theta, the education honor Society
- Pi Sigma Alpha, the political science honor society
- Philatros, for science majors
- Professional Oklahoma Educators
- Psychology Club
- Public Relations Student Society of America
- Sigma Tau Delta, the international English honor society
- Spanish Club
- Student Oklahoma Education Association
- Students in Free Enterprise, a Student Business Organization

### Student Government

The Student Government Association is the official organization representing the OC student body. Its executive officers, senators, and committees govern and supervise student activities within the range of its bylaws. Officers and senators are chosen by popular vote, with representatives from the residence hall councils, classes, and clubs holding designated positions. Student Government Association meetings are open to all students.

Other student government bodies are the OC Housing Council, with representatives from each residence hall, and the Inter-Club Council, with representatives from each social service club.

### Drama

Students may participate in Theater Department productions by enrolling in Acting Workshop or Technical Theater Workshop or by volunteering. The Theater Department offers several major productions each year, including the Homecoming musical\*, a fully-staged production using a full orchestra. Students also may participate in dinner theater productions\* and in opera workshops. Unbound\* is a recruiting group that performs skits with important Christian and social messages.

OC also produces the Ecumenica Journal of Theatre Performance.

### Music

Several music groups perform on and off campus.

The University Chorale\* performs a wide range of music literature and takes one major tour each year.

The Chamber Singers\* is a small, distinguished group of musicians who perform a variety of types of music, including madrigals, vocal jazz, and selections from the repertory of major composers.

New Reign\* is a recruiting group specializing in contemporary Christian a cappella music.

Summer Singers\* is a recruiting group that plays and sings a variety of styles of contemporary music.

Acappella, the Christian touring and recording group founded by Keith Lancaster, has a partnership with OC in which the group members attend the university.

The Symphonic Band\* performs traditional and contemporary concert band literature in concert and on an annual tour.

The Jazz Ensemble\* performs jazz, pop, and rock music in concert and on tour.

The Sweat Band\*, a pep band, performs at home basketball games. Membership is mostly drawn from within the Jazz Ensemble.

The Oklahoma Community Orchestra\*, OC's orchestra-in-residence, is a 65-member symphony orchestra that includes OC students as well as musicians from throughout the Oklahoma City area. This group performs four or five concerts each year, on campus and throughout the city.

The University Chamber Orchestra is comprised of students who have had previous experience playing string instruments in orchestras or private lessons. The orchestra performs frequently in departmental concerts, and smaller ensembles within the orchestra perform for banquets, receptions, and weddings.

\* Membership in asterisked groups is by audition or permission of the director.

### Student Publications and Communications

The Talon, a student newspaper published each Friday, is open to all students, including those majoring in mass communication. In the past two years, it was named both number one in the nation and first runner-up by Sigma Tau Delta, the international English honor society.

The Oklahoma Christian University Journal of Historical Studies, an annual publication of the Tau Sigma Chapter of Phi Alpha Theta, the National History Honor Society, is comprised entirely of student papers and book reviews, and has won two national awards in the past seven years.

*Soundings*, a literary magazine, publishes prose, poetry, art, and photography in its yearly issue.



Ecumenica, a Journal of Theatre and Performance, exists to foster rigorous, scholarly discussions on the intersection of religion, spirituality and theatrical performance.

Broadcast opportunities include:

Eagle Cable, an on-campus television channel managed by mass communication students

Eagle Sports, radio and television broadcasts of Eagle and Lady Eagle games.

Eagle Radio, accessible on the campus cable system and on the Internet.

Eagle Video, a student-staffed video production company.



## BOARD OF TRUSTEES

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Broken Arrow, Oklahoma

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Edmond, Oklahoma

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Treasurer, Chair Finance Committee  
Edmond, Oklahoma

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Secretary, Chair Academic Affairs Committee  
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**Ralph N. Chain**

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Springfield, Missouri

**Ken Davidson**

Yukon, Oklahoma

**Jeffrey A. Dimick**

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Edmond, Oklahoma

**James W. Ketcherside**

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**H. Richard Lawson**

Dallas, Texas

**Dewey Leggett**

Allen, Texas

**Kerry Lowery**

Rio Rancho, New Mexico

**Grant W. Newton**

Medford, Oregon

**Mike E. O'Neal\***

Edmond, Oklahoma

**Harry Patterson, Jr.**

Wichita Falls, Texas

**Millie Prince Roberson**

Norman, Oklahoma

**Phillip W. Roe**

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Franklin, Tennessee

**John Scott**

Garland, Texas

**David M. Seat**

Chair Advancement Committee  
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Paducah, Kentucky

**Mark A. Stansberry**

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Weatherford, Oklahoma

**Thomas J. Trimble**

Scottsdale, Arizona

**Raymond L. Vaughn, Jr.**

Edmond, Oklahoma

**Greg Wedel**

Edmond, Oklahoma

**Marcus A. Wiley**

Highlands Ranch, Colorado

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Chair Resources Committee  
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Chair Student Affairs Committee  
Wichita, Kansas

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Yukon, Oklahoma

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San Antonio, Texas

**Joe A. Dodson**

Oklahoma City, Oklahoma

**Samuel J. Granberg**

Lakewood, Washington

**Lyle Harms**

Ponca City, Oklahoma

**G. LaMoine Neal**

Oklahoma City, Oklahoma

**Hardeman Nichols**

Dallas, Texas

**Allen L. Reese**

Tulsa, Oklahoma

**Jack L. Rowe**

San Diego, California

**Joseph W. Stafford, M.D.**

Enid, Oklahoma

**Jack M. Stephenson, M.D.**

Sulphur, Oklahoma

**Wayne L. Warren**

Broken Bow, Oklahoma

**Phil S. Winn**

Branson, Missouri

\* ex officio

## ADMINISTRATION AND FACULTY

### ADMINISTRATION OFFICERS

**Mike E. O'Neal (2002)**

President  
B.A., Harding Univ.  
J.D., Stanford Univ.

**Bill Goad (1979)**

Executive Vice President  
Chief Operating Officer  
B.S., Oklahoma Christian Univ.  
B.B.A., Abilene Christian Univ.  
Ed.D., Oklahoma State Univ.

**John deSteiguer (2002)**

Senior Vice President for Advancement  
B.A., Northeastern State Univ.  
J.D., Pepperdine Univ.

**Allison D. Garrett (2007)**

Senior Vice President for Academic Affairs  
B.A., Oklahoma Christian Univ.  
J.D., Univ. of Tulsa  
L.L.M., Georgetown Univ.

**Kent Allen (2008)**

Vice President for Alumni Relations  
B.S., Oklahoma Christian Univ.

**Neil Arter (1990)**

Dean of Student Life  
B.S., Oklahoma Christian Univ.  
M.B.A., Oklahoma Christian Univ.

**Mickey D. Banister (1994)**

University Registrar  
B.S., Oklahoma Christian Univ.  
M.Ed., Univ. of Central Oklahoma  
Ed.D., Oklahoma State Univ.

**Jeff Bingham, C.P.A. (1998)**

Vice President for Finance  
Chief Financial Officer  
B.S., Oklahoma Christian Univ.

**Risa Forrester (1996)**

Vice President for Enrollment Management  
B.A., Oklahoma Christian Univ.  
M.Ed., Azusa Pacific Univ.

**Ron Frost (2005)**

Vice President for Communications  
B.S., Oklahoma State Univ.

**John Hermes (1993)**

Vice President for Information Technology  
B.S., Oklahoma Christian Univ.  
M.S., Oklahoma State Univ.

**James W. (Jay) Jones (1997)**

Vice President for University Services  
B.B.A., Univ. of North Texas

**Nathan Mellor (2006)**

Assistant to the President  
Director of Church Relations  
B.A., Harding Univ.  
M.S.E., Harding Univ.  
M.D.R., Pepperdine Univ.  
Ed.D., Pepperdine Univ.

### FACULTY

**Ken L. Adams (1972)**

Director, Chorale  
Professor of Music  
B.M.E., Univ. of Central Oklahoma  
M.M., Univ. of North Texas  
D.M.A., Univ. of Iowa  
2008 Gaylord Chair of Distinguished Teaching

**Cami Agan (1997)**

Chair, Department of Language and Literature  
Professor of English  
B.A., Oklahoma Christian Univ.  
M.A., Boston College  
Ph.D., Duquesne Univ.

**Christopher Austin (2008)**

Assistant Professor of Chemistry and Physics  
B.S., Oklahoma Christian Univ.  
Ph.D., Oklahoma State Univ.

**Jim Baird (1992)**

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

**Amy Beauchamp (2005)**

Instructor of Art and Design  
B.S., Oklahoma Christian Univ.  
M.F.A., Univ. of Central Oklahoma

**Jeffrey Bigelow (1994)**

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

**Rebecca Briley (2010)**

Associate Professor of English  
Coordinator of Composition/Rhetoric  
B.A., Univ. of Kentucky  
M.A., Univ. of Kentucky  
Ph.D., Univ. of Kentucky

**Jennifer Bryan (2003)**

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

**Michael Cady (2009)**

Assistant Professor of Accounting  
B.S., Univ. of Central Oklahoma  
M.B.A., Oklahoma Christian Univ.

**Robert Carpenter (1998)**

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

**David Cassel (1995)**

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

**Dudley Chancey (1998)**

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

**Dwayne Cleveland (1994)**

Professor of Education  
B.S.E., Oklahoma Christian Univ.  
M.A., California State Univ., Bakersfield  
Ed.D., Oklahoma State Univ.  
2005 Gaylord Chair of Distinguished Teaching

**J.J. Compton (2002)**

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

**Jana Cook (2003)**

Assistant Professor of Business  
B.S., Oklahoma Christian Univ.  
M.B.A., Midwestern State Univ.  
Ph.D. candidate, Nova Southeastern Univ.

**Mickey Cowan (2000)**

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

**David Crismon (1991)**

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

**Ralph DeBoard (1985)**

Associate Professor of Computer Science  
B.A., Oklahoma Christian Univ.  
M.S., Wright State Univ.

**Max Dobson (1966)**

Professor of Physical Education  
B.S., Phillips Univ.  
M.Ed., Northwestern State College  
Ed.D., Oklahoma State Univ.  
1975 Gaylord Chair of Distinguished Teaching

**Donald V. Drew (2000)**

Dean, Graduate Programs  
Professor of Business  
B.A., Oklahoma Christian Univ.  
M.H.R., Univ. of Oklahoma  
Ed.D., Oklahoma State Univ.

**James Dvorak (2008)**

Associate Professor of Bible  
B.A., Oklahoma Christian Univ.  
M.Div., Trinity Evangelical Divinity School  
M.A., George Washington Univ.  
Ph.D. candidate, McMaster Divinity College

**Kay Elder (2006)**

Assistant Professor of Nursing  
B.S., Oklahoma Christian Univ.  
B.S.N., Univ. of Oklahoma, Health Sciences Center  
M.S.N., Univ. of Oklahoma, Health Sciences Center

**Caren Feuerhelm (2004)**

Associate Professor of Education  
B.S., Oklahoma State Univ.  
M.A., Southern Nazarene Univ.  
Ed.D., Oklahoma State Univ.

**Leonard Feuerhelm (1976)**

Professor of Physics  
B.S., Oklahoma State Univ.  
M.S., Oklahoma State Univ.  
J.D., Oklahoma City Univ.  
Ph.D., Oklahoma State Univ.

**Stephanie Findley (1983)**

Associate Professor of Physical Education  
Women's Basketball Coach  
B.S.E., Oklahoma Christian Univ.  
M.Ed., Univ. of Central Oklahoma

**John Fletcher (1987)**

Chair, Department of Music  
Professor of Music  
B.A., Oklahoma Christian Univ.  
M.M., Univ. of Missouri  
D.M.A., Univ. of Oklahoma  
2010 Gaylord Chair of Distinguished Teaching

**Linda Fly (2006)**

Director, Department of Nursing  
Assistant Professor of Nursing  
B.S., Central State Univ.  
M.P.A., Golden Gate Univ.  
M.S.N., Abilene Christian Univ.  
Ph.D. candidate, Univ. of Oklahoma

**Merle K. Gatewood (1972)**

Associate Professor of English and French  
B.A., Drew Univ.  
M.A., Univ. of Paris (Sorbonne)  
M.A., Univ. of Central Oklahoma

**Loren G. Gieger (1984)**

Professor of New Testament  
B.A., Abilene Christian Univ.  
M.Div., Southwestern Baptist  
Theological Seminary  
Ph.D., Southwestern Baptist  
Theological Seminary  
1997 Gaylord Chair of Distinguished Teaching

**T. Ray Hamlett (2005)**

Professor of Mathematics  
B.A., Arkansas College  
M.S., Univ. of Arkansas  
Ph.D., Univ. of Arkansas

**Andy Harbert (1997)**

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

**Scott Harper (2004)**

Associate Professor of Family Studies  
B.S., Freed-Hardeman Univ.  
M.A., Northeast Louisiana Univ.  
Ph.D., Univ. of Missouri

**John Harrison (2000)**

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

**Dan Hays (1983)**

Professor of Physical Education  
Men's Basketball Coach  
B.S., Eastern New Mexico Univ.  
M.S., Eastern New Mexico Univ.  
M.Ed., Eastern Washington Univ.

**Randy Heath (1977)**

Professor of Physical Education  
Track and Field Coach  
B.S.E., Oklahoma Christian Univ.  
M.Ed., Univ. of Central Oklahoma

**Shawna Hood (2007)**

Instructor of Nursing  
B.S., Univ. of Central Oklahoma  
M.S., Midwestern State Univ.

**Paul Howard (2002)**

Assistant Professor of Mathematics  
B.S., Univ. of Idaho  
M.S., Univ. of Idaho  
Ph.D. candidate, Univ. of Oklahoma

**Barrett Huddleston (2007)**

Assistant Professor of Theater  
B.A., Oklahoma Christian Univ.  
M.A., Oklahoma State Univ.  
Ph.D., Univ. of Minnesota

**Raymon Huston (2004)**

Associate Professor of Political Science  
B.A., Midwestern State Univ.  
M.A., Midwestern State Univ.  
Ph.D., Texas Tech Univ.

**Paula Hutton (1993)**

Assistant Professor of Music  
B.M., Univ. of New Mexico  
M.M.E., Univ. of Central Oklahoma  
Ph.D. candidate, Univ. of Oklahoma

**Curtis Janz (1988)**

Chair, Department of Physical Education  
Director of Athletics  
Associate Professor of Physical Education  
B.S.E., Oklahoma Christian Univ.  
M.S., Univ. of Central Oklahoma  
Ph.D. candidate, Capella Univ.

**Craig Johnson (2005)**

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

**Heath Jones (2001)**

Associate Professor of Music  
B.M.E., Oklahoma Christian Univ.  
M.M., Baylor Univ.  
Ph.D., Univ. of Oklahoma

**Jody Jones (2006)**

Assistant Professor of Finance  
B.S., Oklahoma Wesleyan Univ.  
M.B.A., Oklahoma City Univ.  
Ed.D. candidate, Oklahoma State Univ.

**Larry Journey (1985)**

Chair, Department of Communication  
Professor of Mass Communication  
B.A., David Lipscomb Univ.  
M.A., Univ. of Tennessee  
Ph.D., Univ. of Michigan

**Elaine Kelly (1992)**

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

**Chip Kooi (2001)**

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

**Scott LaMascus (1999)**

Director of Honors Program  
Professor of English  
B.A., Oklahoma Christian Univ.  
M.A., Univ. of Oklahoma  
Ph.D., Univ. of Oklahoma  
2003 Gaylord Chair of Distinguished Teaching

**Donald Leftwich (1979)**

Chair, Department of Mathematical, Computer  
and Information Services  
Associate Professor of Mathematics and  
Computer Science  
B.S., Oklahoma Christian Univ.  
M.A., Univ. of Oklahoma

**Phil Lewis (1999)**

Dean, College of Professional Studies  
Professor of Business  
B.S., Abilene Christian Univ.  
M.A., Univ. of Denver  
Ed.D., Univ. of Houston

**Gary Lindsey (2009)**

Associate Professor of History  
B.A., Texas Tech Univ.  
M.A. Abilene Christian Univ.  
Ph.D., Texas Tech Univ.

**David Lowry (2005)**

Dean, College of Arts and Sciences  
Professor of Communication  
B.S., Abilene Christian Univ.  
M.S., Abilene Christian Univ.  
Ph.D., Univ. of North Texas

**William Luttrell (2005)**

Chair, Department of Chemistry and Physics  
Associate Professor of Chemistry  
B.S., Univ. of Louisville  
M.S., Old Dominion Univ.  
Ph.D., Eastern Virginia Medical School and Old  
Dominion Univ.

**Steven P. Maher (2002)**

Associate Professor of Electrical and  
Computer Engineering  
B.S.E.E., Univ. of Kansas  
M.S.E.E., Univ. of Kansas

**John Maple (1977)**

Chair, Department of History and Political Science  
Distinguished Professor of History  
B.A., Oklahoma Christian Univ.  
M.A., Univ. of Virginia  
M.Phil., Univ. of Kansas  
Ph.D., Univ. of Kansas  
1991 Gaylord Chair of Distinguished Teaching



**Alan Martin (2006)**

Dean, College of Biblical Studies  
Associate Professor of Family Ministry  
B.A., Harding Univ.  
M.A., Abilene Christian Univ.  
Ph.D., Michigan State Univ.

**Darin Martin (2005)**

Associate Professor of Education  
B.A., Harding Univ.  
M.Ed., Harding Univ.  
Ed.D., Oklahoma State Univ.

**Bailey McBride (1956)**

Professor of English  
A.A., Central Christian College  
B.A., David Lipscomb Univ.  
M.A., Univ. of Tennessee  
Ph.D., Univ. of Tennessee  
2004 Inducted into Oklahoma Education Hall of Fame

**Matt McCook (2002)**

Associate Professor of History  
B.S., Abilene Christian Univ.  
M.A., Sam Houston State Univ.  
Ph.D., Florida State Univ.

**Lynn McMillon (1966)**

Distinguished Professor of Bible  
B.A., Oklahoma Christian Univ.  
M.A., Harding Graduate School of Religion  
M.Th., Harding Graduate School of Religion  
Ph.D., Baylor Univ.  
1985 Gaylord Chair of Distinguished Teaching

**Lisa McWhirter (2002)**

Assistant Professor of Biology  
Director of Faculty Development  
B.S., Oklahoma Christian College  
M.Ed., Central State Univ.  
M.S., Univ. of Oklahoma  
Ph.D., Univ. of Oklahoma

**Kimberly Merritt (2007)**

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

**Al Mikell (2006)**

Associate Professor of Biology  
B.S., Univ. of Alabama  
B.S., Univ. of Alabama at Birmingham  
M.S., Auburn Univ.  
Ph.D., Virginia Tech Univ.

**Ken Miller (1998)**

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

**Kris Miller (1994)**

Professor of Biology  
B.S., Oklahoma Christian Univ.  
M.S., Univ. of Oklahoma  
Ph.D., Univ. of Oklahoma

**Richard Miller (2005)**

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

**Robyn Miller (1997)**

Chair, School of Education  
Professor of Education  
B.S., Oklahoma Christian Univ.  
M.A., Univ. of Central Oklahoma  
Ed.D., Oklahoma State Univ.

**Rhonda Morris (2008)**

Assistant Professor of Education  
B.A., Northeastern State Univ.  
M.A., Northeastern State Univ.  
Ed.D., candidate, Univ. of Oklahoma

**Monica Muza (2005)**

Instructor of Mathematics  
B.S.E., Univ. of Central Oklahoma  
M.S., Univ. of Central Oklahoma  
Ph.D. candidate, Univ. of Oklahoma

**Gail Nash (1998)**

Assistant Professor of English  
B.A., Oklahoma Christian Univ.  
M.A., Oklahoma State Univ.  
Ph.D. candidate, Oklahoma State Univ.

**Byron Newberry (2001)**

Chair, Engineering Graduate Programs  
Chair, Department of Mechanical Engineering  
Associate Professor of Mechanical Engineering  
B.S.M.E., Oklahoma Christian Univ.  
M.S.M.E., Univ. of Michigan  
Ph.D., Univ. of Michigan

**Ryan Newell (1992)**

Chair, Department of Psychology and Family Studies  
Professor of Psychology  
A.A., Ohio Valley College  
B.S., Oklahoma Christian Univ.  
M.Ed., Univ. of Central Oklahoma  
Ph.D., Univ. of Toledo

**Amanda Nichols (2008)**

Assistant Professor of Chemistry  
B.S., Oklahoma Christian Univ.  
Ph.D., Oklahoma State Univ.

**R. Stafford North (1952)**

Distinguished Professor of Bible  
B.A., Abilene Christian Univ.  
M.A., Louisiana State Univ.  
Ph.D., Univ. of Florida  
1997 inducted into Oklahoma Education Hall of Fame

**Michael O'Keefe (1981)**

Professor of Art and Design  
B.A., Harding Univ.  
B.S., Harding Univ.  
M.F.A., Univ. of North Texas

**Becky O'Neal (2009)**

Assistant Professor of Nursing  
B.S., Univ. of Central Oklahoma  
M.S., Univ. of Oklahoma

**John Osborne (2000)**

Assistant Professor of Communication  
Director of International Programs  
B.S., Oklahoma Christian Univ.

**Lee Anne Paris (1998)**

Associate Professor of Library Science and Reference  
Librarian  
B.A., Vanderbilt Univ.  
M.S., Univ. of Oklahoma  
Ph.D., Univ. of North Carolina

**Philip Patterson (1981)**

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

**Joseph Paul (2006)**

Assistant Professor of Business  
B.A., OU, India  
M.Comm., OU, India  
M.B.A., Texas A & M, Commerce  
D.B.A. candidate, Argosy Univ.

**Eric Phelps (2008)**

Assistant Professor of Biology  
B.S., Oklahoma Christian Univ.  
Ph.D., Univ. of Oklahoma

**Jeff Price (2009)**

Visiting Associate Professor of Art and Design  
B.F.A., Univ. of Oklahoma  
M.F.A., Virginia Commonwealth Univ.

**Lindsay Prugh (2008)**

Instructor of Mathematics  
B.S., Oklahoma Christian Univ.  
M.S., Univ. of Central Oklahoma  
Ph.D. candidate, Univ. of Oklahoma

**Philip Reagan (1979)**

Director, Oklahoma Christian Theater  
Associate Professor of Speech and Theater  
B.A., Harding Univ.  
M.A., Memphis State Univ.

**Kerianne Roper (2004)**

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

**Chris Rosser (2009)**

Assistant Professor and Theological Librarian  
B.S., Oklahoma Christian Univ.  
M.L.I.S., Univ. of Oklahoma  
M.Div. candidate, Oklahoma Christian Univ.

**William W. Ryan (2001)**

Professor of Engineering Sciences  
B.A., California State College  
M.A., Sam Houston State College  
Ph.D., Univ. of Texas

**Beth Scott (2006)**

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

**Harold Shank (2006)**

Professor of Old Testament  
B.A., Oklahoma Christian Univ.  
M.A., Harding Univ.  
M.A.R., Harding Univ.  
Ph.D., Marquette Univ.

**Jeffrey Simmons (2008)**

Chair, Department of Management/Marketing  
Associate Professor of Business  
B.S., Oklahoma Christian Univ.  
M.I.M., Thunderbird School of Global Management  
D.B.A., Nova Southeastern Univ.

**Burton Smith (2003)**

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

**Pat Smith (2006)**

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

**Virginia Smith (2008)**

Director, Bridge Program  
Instructor, Bridge Program  
B.S., Oklahoma State Univ.  
M.B.A. candidate, Oklahoma Christian Univ.  
Ph.D. candidate, Oklahoma State Univ.

**Willie Steele (2005)**

Associate Professor of English  
B.A., David Lipscomb Univ.  
M.A., Middle Tennessee State Univ.  
Ph.D., Indiana University of Pennsylvania

**Kathy Thompson (1993)**

Chair, Department of Music  
Professor of Music  
B.M.E., Abilene Christian Univ.  
M.M., Univ. of Oklahoma  
Ph.D., Univ. of Oklahoma

**Mark Thompson (2006)**

Instructor of Physics  
B.S., Univ. of Arkansas  
M.A., Univ. of Arkansas

**Dara Tinius (2009)**

Instructor, Library  
B.A., Oklahoma Christian Univ.  
M.L.S., Univ. of Oklahoma

**Richard Trout (2010)**

Associate Professor of Biology  
B.S., Oklahoma Christian Univ.  
M.S., Oklahoma State Univ.  
A.B.D., OU Health Sciences Center  
Secondary Teaching Certification, Univ. of Central  
Oklahoma

**Timothy VanWagoner (2007)**

Chair, Department of Biology  
Assistant Professor of Biology  
A.S., York Univ.  
B.S., Oklahoma Christian Univ.  
Ph.D., Univ. of Oklahoma

**John Vincent (1980)**

Professor of Education  
B.A., Harding Univ.  
M.A., Western State College  
Ed.D., Univ. of Northern Colorado  
1987 Gaylord Chair of Distinguished Teaching

**Howard Vogel (2005)**

Associate Professor of Chemistry  
B.S., Univ. of Texas  
Ph.D., Texas Tech Univ.

**David Waldo (1996)**

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

**Tina Ware (1998)**

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

**W. Joe Watson (1989)**

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

**Josh Watson (2008)**

Instructor of Communication  
B.A., Freed Hardeman Univ.  
M.A., East Tennessee State Univ.

**Wayne Whaley (1989)**

Professor of Mechanical Engineering  
B.S., Oklahoma State Univ.  
M.S., Oklahoma State Univ.  
Ph.D., Oklahoma State Univ.

**Ronnie White (2010)**

Visiting Instructor  
B.B.A., Texas Technological College  
B.A., Oklahoma Christian Univ.

**Tamie Willis (1986)**

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

**Tina Winn (2010)**

Associate Professor of Education  
B.S., Oklahoma Christian Univ.  
M.Ed., Northwestern State Univ.  
Ed.D., Oklahoma State Univ.

**Richard A. Wright (2006)**

Chair, Graduate Bible Department  
Associate Professor of Bible  
B.Mus., Oberlin Conservatory  
A.B., Oberlin College  
M.A., Abilene Christian Univ.  
M.T.S., Southern Methodist Univ.  
Ph.D., Brown Univ.

**PROFESSORS EMERITI****Darrel Alexander**

Professor of Speech and Theater  
B.A., Harding Univ.  
M.A., Univ. of Denver  
Ph.D., Louisiana State Univ.  
At Oklahoma Christian since 1962

**James Baxter**

Professor of Chemistry  
B.A., David Lipscomb Univ.  
M.A., Univ. of Georgia

Ph.D., Univ. of Georgia  
1981 Gaylord Chair of Distinguished Teaching  
At Oklahoma Christian 1970-2004

**Ronald Bever**

Professor of Speech  
B.A., Harding Univ.  
M.A., Harding Univ.  
M.R.E., Harding Univ.  
M.A., Temple Univ.  
Ph.D., Northwestern Univ.  
At Oklahoma Christian 1964-1996

**Ralph Burcham**

Professor of Information Systems  
B.S., Southwestern State College  
M.B.E., Univ. of Tulsa  
1977 Gaylord Chair of Distinguished Teaching  
At Oklahoma Christian 1958-1992

**James Cail**

Professor of Psychology  
A.A., Oklahoma Christian Univ.  
B.A., Abilene Christian Univ.  
Ph.D., Baylor Univ.  
1980 Gaylord Chair of Distinguished Teaching  
At Oklahoma Christian 1963-2004

**Floyd Coppedge**

Professor of Education  
B.S.E., Northeastern State College  
M.A., Northeastern State College  
Ed.D., Univ. of Oklahoma  
At Oklahoma Christian 1991-2007

**James Cutbirth**

Professor of Mechanical Engineering  
B.S.A.E., Univ. of Texas  
M.S., Univ. of Texas  
Ph.D., Oklahoma State Univ.  
At Oklahoma Christian 1983-2009

**Lois Exendine**

Professor of Education  
B.S., Southwestern Oklahoma  
State Univ.  
M.S., Northeastern Oklahoma  
State Univ.  
Ed.D., Univ. of Oklahoma  
At Oklahoma Christian 1971-1992

**Harold Fletcher**

Professor of Music  
B.A., Hardin Simmons Univ.  
B.M., Hardin Simmons Univ.  
M.M., Hardin Simmons Univ.  
Ph.D., Univ. of Oklahoma  
1978 Gaylord Chair of Distinguished Teaching  
2008 Inducted into Oklahoma Education Hall of Fame

**Elmo Hall**

Professor of English  
B.A., Harding Univ.  
M.A., Texas Christian Univ.  
Ph.D., Oklahoma State Univ.  
At Oklahoma Christian since 1967

**Geneva Hoover**

Associate Professor of Library Science  
Reference Librarian  
B.S., Middle Tennessee State College  
M.L.S., George Peabody College for Teachers  
At Oklahoma Christian 1965-2006

**William E. Jones**

Professor of Bible  
 B.A., Abilene Christian Univ.  
 B.D., Southwestern Baptist Theological Seminary  
 M.A., Abilene Christian Univ.  
 Th.D., Southwestern Baptist Theological Seminary  
 At Oklahoma Christian 1962-1998

**Darvin Keck**

Professor of Biology  
 B.S., Oklahoma State Univ.  
 M.S., Oklahoma State Univ.  
 Ph.D., Oklahoma State Univ.  
 1976 Gaylord Chair of Distinguished Teaching  
 At Oklahoma Christian 1956-1988

**Howard D. Leftwich**

Professor of Accounting  
 B.S., Wichita Univ.  
 M.A., Univ. of Oklahoma  
 D.B.A., Univ. of Oklahoma  
 1983 Gaylord Chair of Distinguished Teaching  
 At Oklahoma Christian 1967-1996

**Joe E. McCormack**

Associate Professor of English  
 B.A., Univ. of Central Oklahoma  
 M.A.T., Southwestern Oklahoma State Univ.  
 1993 Gaylord Chair of Distinguished Teaching  
 At Oklahoma Christian since 1967

**Lynn Nored**

Professor of Electrical Engineering  
 B.S.E.E., Texas Tech Univ.  
 M.S.E.E., Southern Methodist Univ.  
 At Oklahoma Christian 1986-2002

**Arthur Sheldon**

Associate Professor of Electrical Engineering  
 B.S.E.E., Michigan State Univ.  
 M.S.E.E., Florida Institute of Technology  
 At Oklahoma Christian 1988-2001

**Gary Shreck**

Professor of Education  
 B.S.E., Oklahoma Christian Univ.  
 M.S., Oklahoma State Univ.  
 Ed. D., Univ. of Oklahoma  
 At Oklahoma Christian 1971-2008

**W. Jack Skaggs**

Professor of Management  
 B.B.A., Texas A & M Univ.  
 M.B.A., Southern Methodist Univ.  
 Ed.D., Oklahoma State Univ.  
 At Oklahoma Christian since 1981

**Cherry Tredway**

Associate Professor of Art and Design  
 B.S., Oklahoma State Univ.  
 M.S., Univ. of Central Oklahoma  
 Ph.D., Oklahoma State Univ.  
 At Oklahoma Christian 1976-2002

**James Wilson**

Professor of History  
 B.A., Harding Univ.  
 M.A., Univ. of Arkansas  
 Ph.D., Univ. of Oklahoma  
 1984 Gaylord Chair of Distinguished Teaching  
 At Oklahoma Christian 1969-2002

**Mark Woodward**

Professor of English and German  
 B.A., Harding Univ.  
 M.A., Univ. of Mississippi  
 Ph.D., Univ. of Texas at Dallas  
 At Oklahoma Christian 1979-2001

**RETIRED FACULTY****James Elkins**

Associate Professor of Mechanical Engineering  
 B.S.M.E., Univ. of Nebraska  
 M.S.M.E., Univ. of Nebraska

**Michael Gipson**

Professor of Biology  
 B.S.E., Oklahoma Christian Univ.  
 M.S.E., Arkansas State Univ.  
 M.Ed., Univ. of Central Oklahoma  
 Ph.D., Univ. of Oklahoma

**Peggy Gipson**

Professor of English  
 B.S.E., Oklahoma Christian Univ.  
 M.A., Univ. of Central Oklahoma  
 Ph.D., Oklahoma State Univ.

**Marge Jennings**

Professor of Family Relations and Child Development  
 B.S., Oklahoma State Univ.  
 M.S., Univ. of Oklahoma  
 Ph.D., Oklahoma State Univ.  
 At Oklahoma Christian 1980-1998

**Marilyn Lewis**

Associate Professor of Communication  
 B.S., Abilene Christian Univ.  
 M.A., Northern Colorado Univ.  
 Ed.D., Oklahoma State Univ.

**Sandra Lockwood**

Instructor, Technical Processing Librarian  
 B.S.E., Oklahoma Christian Univ.  
 At Oklahoma Christian 1970-2002

**Harold Logan**

Associate Professor of Accounting  
 A.A., Cameron State College  
 B.S., East Central Oklahoma State Univ.  
 M.A., Univ. of Oklahoma  
 Ph.D., Univ. of Oklahoma  
 At Oklahoma Christian 1980-1987

**Richard Mock, Jr.**

Associate Professor of  
 Behavioral and Social Sciences  
 B.A., Harding Univ.  
 M.S., Southern Illinois Univ.  
 Ed.D., Univ. of Oklahoma  
 At Oklahoma Christian 1975-2002

**Howard Norton**

Professor of Bible  
 B.A., Abilene Christian Univ.  
 M.A., Univ. of Houston  
 Ph.D., Univ. of Sao Paulo  
 1992 Gaylord Chair of Distinguished Teaching  
 At Oklahoma Christian 1977-1996

**Jerald Parker**

Professor of Mechanical Engineering  
 B.S., Oklahoma State Univ.  
 M.S., Oklahoma State Univ.  
 Ph.D., Purdue Univ.  
 1995 Gaylord Chair of Distinguished Teaching  
 At Oklahoma Christian 1988-1996

**John Pennisi**

Associate Professor of Bible  
 B.S., Univ. of Florida  
 M.S., Abilene Christian Univ.  
 B.D., Southwestern Baptist  
 Theological Seminary  
 At Oklahoma Christian 1981-1996

**Roland Schultz**

Professor of Chemistry  
 B.S., Mankato College  
 Ph.D., Univ. of Iowa  
 At Oklahoma Christian 1968-2000

**Lynn Tyler**

Professor of Mechanical Engineering  
 B.S.M.E., Univ. of Tulsa  
 M.S.M.E., Oklahoma State Univ.  
 Ph.D., Oklahoma State Univ.  
 At Oklahoma Christian 1992-2002

## TUITION / SPECIAL FEES / ROOM AND BOARD 2010-2011

### TUITION — Fall/Winter/Summer

Full-time students, per semester	
12-15 semester hours.....	\$7,800
Hours over 15, per semester hour.....	\$520
Part-time students (fewer than 12 hours), per semester hour.....	\$650
Concurrent students, per course.....	\$565
Summer school, per semester hour.....	\$345*
*Scholarships do not apply in the summer.	

#### Audit fees

Per semester hour.....	\$50
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### SPECIAL FEES

Admission Fee (paid at first enrollment only – not refundable) ....	\$25
Parking Permit	
Original.....	N/C
Additional or replacement, each.....	\$5
ID Activity Card and Replacement, each.....	\$20
Health Insurance Premium..... 08/21/10 thru 08/21/11:	\$847
Health Insurance Premium..... 01/10/10 thru 08/21/11:	\$564
Health Insurance Premium..... 05/03/10 thru 08/21/11:	\$281
(required of all students who have not given proof of insurance to Health Center for the fall semester by September 11, 2010, and for the spring semester by January 22, 2011)	
Student Government Association dues, per semester	
Below 12 hours.....	\$15
12 hours and above.....	\$28
General Fee, per semester	
Full-time and Part-time.....	\$450
Summer school (per hour).....	\$25
Technology Fee, per semester (fall and spring semester only)	
6 hours and above.....	\$450

### RESIDENCE HALL

Wilson West, Wilson East, Gunn-Henderson West & East,

Tinius West

Shared room.....	\$1,350
Private room (if available, per semester additional).....	\$750

Falls, Warlick, Tinius East

Shared room.....	\$1,950
Shared room with semi-private bath.....	\$2,235
Private room.....	\$2,460
Private room with semi-private bath.....	\$2,625

University House North, University House South

Shared room with semi-private suite.....	\$2,235
Private room with semi-private suite.....	\$2,790

Meal Plan Options-Residence Halls

Unlimited full meal plan-no points included .....	\$1,900 per semester
300 meals per semester (20 meals/ week) + 100 points	

.....	\$1,850 per semester
270 meals per semester (18 meals/ week) + 100 points .....	\$1,800 per semester
210 meals per semester (14 meals/week) + 100 points .....	\$1,575 per semester
270 meals per semester (18 meals/ week) no points included .....	\$1,700 per semester

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

### UNIVERSITY APARTMENTS/UNIVERSITY VILLAGE APARTMENTS

#### Phases III-IV

One bedroom, private (1 person).....	\$2,785
One bedroom, semi-private (2 people).....	\$1,680
Renovated, semi-private (2 people).....	\$2,400
Two bedrooms, private (1 person per room).....	\$2,455
Two bedrooms, semi-private (2 people per room).....	\$1,545

#### Phase V

Semi-private.....	\$2,455
Private room.....	\$2,785

#### Phase VI

One bedroom, private.....	\$3,325
One bedroom, semi-private (2 people).....	\$2,725
Two bedrooms, private (1 person per room).....	\$2,785
Two bedrooms, private/semi-private	
Private:.....	\$2,785
Semi-private:.....	\$2,455
Two bedrooms, semi-private/semi-private (2 people per room).....	\$2,455

Meal Plan Options-Apartments (except married apartment)

75 meals per semester (5 meals/week) no points included .....	\$625 per semester*
105 meals per semester (7 meals/week) no points included .....	\$850 per semester*
105 meals per semester (7 meals/week) + 200 points .....	\$1,050 per semester*
270 meals per semester (18 meals/ week) no points included .....	\$1,700 per semester
210 meals per semester (14 meals/week) + 100 points .....	\$1,575 per semester
270 meals per semester (18 meals/ week) + 100 points .....	\$1,800 per semester
300 meals per semester (20 meals/ week) + 100 points .....	\$1,850 per semester
Unlimited full meal plan-no points included .....	\$1,900 per semester

\*University Village Only

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



## MARRIED STUDENT HOUSING

### Phase II

One bedroom, unfurnished .....	\$600 per month
Two bedrooms, unfurnished .....	\$720 per month

### Phase VI

One bedroom/One bath – 706 square feet, unfurnished (includes washer & dryer) .....	\$755 per month
Two bedrooms/Two baths – 850 square feet, unfurnished (includes washer & dryer) .....	\$915 per month
Two bedrooms/Two baths – 965 square feet (includes washer & dryer) .....	\$995 per month

Phase VI has limited covered parking available for \$25 per month.

All housing areas include standard local telephone services.  
However, students must provide a telephone.

### FINANCIAL INFORMATION

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

The Free Application for Federal Student Aid (FAFSA) determines eligibility for aid. The application form is available online at [www.fafsa.gov](http://www.fafsa.gov) or from the Student Financial Services Office.

As a private university, OC does not charge out-of-state tuition.

### TYPICAL EXPENSES

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

Tuition (12-15 semester hours), per semester .....	\$7,800
Room, per semester .....	\$1,350
Board, 210 meals + 100 points per semester .....	\$1,575
General fee .....	\$450
Technical fee .....	\$450
Student Government Association fee .....	\$28
TOTAL .....	\$11,653

The tuition charge of \$7,800 per semester is for 12 to 15 semester hours. All course fees are included in this \$7,800 except for private music lessons or nursing courses. Those enrolling in more than 15 credit hours per semester pay \$520 for each hour above 15.

The general fee covers the costs of items such as the school newspaper, schedule changes, transcripts, and the fitness center. It also provides for students access to athletic events, to the library, and most course fees.

### PAYMENT

**PAYMENT PLAN FORM** – Students who pre-enroll will receive an electronic payment plan soon after the receipt of their award letters. All students will be required to complete the payment plan form before classes begin.

Payment of expenses may be arranged under one (or a combination) of four payment plans:

#### Plan 1 – Cash at Enrollment

This is the best form of payment because it eliminates all service charges. Students should be prepared to make payment for tuition, fees, and room/board on the day of registration each semester. Checks should be made payable to OC. The total cost is approximately \$11,653. The university also accepts three major credit cards (American Express, Discover, and MasterCard), which can be used to pay any part of the total student charges. Those who pay with a credit card will be charged a convenience fee.

#### Plan 2 – Monthly Tuition Payment Plan through Educational Data Systems, Inc. (EDSI)

A monthly prepayment plan is available through Educational Data Systems, Inc. (EDSI). EDSI charges an annual fee of \$50, but OC does not add a service charge on your account as long as the contract payments are made each month. Enrollment forms are available upon request in the Student Financial Services Office. These payments can begin as early as June. For more information, go to [www.edsinet.com](http://www.edsinet.com).

#### Plan 3 – Parent Loan for Undergraduate Students (PLUS)

This fixed interest rate loan of 7.9% is available to the parents of undergraduate, dependent students enrolled in at least a half-time course of study. The amount available is determined by the cost of education less the amount of other financial aid the student receives. Interest begins accruing when the loan is disbursed, and repayment begins 60 days after the loan is fully disbursed. Parents may also defer repayments until their child has graduated or ceased attending at least half-time. The Student Financial Services Office must certify eligibility for the loan. Please contact the Student Financial Services Office or visit [www.oc.edu/loans](http://www.oc.edu/loans) for additional information regarding this loan.

#### Plan 4 – Alternative Loans

Various student loans are available to students through private lenders. More information is available through the Student Financial Services Office. For more information, visit [www.oc.edu/loans](http://www.oc.edu/loans).

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

### REFUND POLICY

#### Withdraw/Drop Refund Policy

Tuition and general fee refunds are made to students who officially withdraw from a regular 15-week course or from the university before the fourth week of a semester. Refunds are given as follows:

1. If the withdrawal date is in the first week, a 100% refund will be made.
2. If the withdrawal date is in the second week, a 75% refund will be made.
3. If the withdrawal date is in the third week, a 50% refund will be made.
4. After the third week, no refunds will be made.

Tuition and general fee refunds are made to students who officially withdraw from all other courses by the second day of class. Refunds are given as follows:

5. If the withdrawal date is on the first day, a 100% refund will be made.
6. If the withdrawal date is on the second day, a 50% refund will be made.
7. After the second day, no refunds will be made.

## FEDERAL FINANCIAL AID PROGRAMS

### Applying for Aid

Interested students should complete a Free Application for Federal Student Aid (see page 25) and the admissions application. Determination of the student's eligibility is based on family size, the number in college, income, resources, obligations, and the cost of the university. All information contained in these documents is held in strict confidence. The resulting financial aid report determines eligibility for a Federal Pell Grant, Federal Supplemental Education Opportunity Grant, Academic Competitiveness Grant, SMART Grant, TEACH Grant, Federal Perkins Loan, Federal Work Study, Federal Family Educational Loan, Oklahoma Tuition Equalization Grant, and Oklahoma Tuition Aid Grant.

### Grant Programs

Federal Pell Grants are available to students. Eligibility is determined on the basis of need as defined by the Pell Grant Program Division of the U.S. Office of Education. Federal Supplemental Educational Opportunity Grants (SEOG) also are available to students. Pell Grant recipients are to receive priority consideration for SEOG awards. SMART grants are awarded to third- and fourth-year Pell-eligible students who have a 3.0 GPA and are majoring in engineering, math, science, and technology. Academic Competitiveness Grants (ACG) are awarded to first- and second-year students who are Pell-eligible and have completed a rigorous high school program as designated by their respective states.

Oklahoma Tuition Aid Grants and Oklahoma Tuition Equalization Grants also are available to students. Eligibility is determined by the Oklahoma State Regents for Higher Education. Recipients must be legal residents of Oklahoma.

### Loan Programs

Federal Perkins Loans are available for eligible students at 5.0% simple interest. A student may borrow up to \$5,500 a year. There is no interest payment while the student is enrolled at least half-time. Repayment begins nine months after the student ceases to be at least half-time. The loan must be repaid within 10 years from the date payment begins. OC serves as the lender.

Federal Stafford Loans are available for eligible students at a fixed interest rate. Subsidized Stafford Loans have a fixed interest rate of 5.6% while Unsubsidized Stafford Loans have a fixed interest rate of 4.5%. Students may borrow up to \$5,500 a year as a freshman, \$6,500 a year as a sophomore, and \$7,500 a year as a junior or senior. A loan application must be completed in addition to the FAFSA. Repayment begins six months after the student ceases to be enrolled at least half-time. The entire loan must be repaid within 10 years after repayment begins.

There are two forms of the Federal Stafford Loan. The Federal Subsidized Stafford Loan (STSL) is based on a student's need, and the government pays the interest while the student is in school.

The Federal Unsubsidized Stafford Loan (UNSUB) is based on the university's cost of attendance. The limit of UNSUB takes into account the amount of STSL received. The government does not pay interest on the loan while the student is in school. The student can choose to pay interest quarterly or add it to the loan principal.

### Parent Loans

Federal Parent Loans for Undergraduate Students (PLUS Loans) are unlike all the previously mentioned federal aid programs regarding eligibility criteria. Family finances are not a determining factor for PLUS loan eligibility. There is no income restriction whatsoever. Financial aid received by the student and the cost of attendance will determine eligibility. Students who have little or no eligibility for the other federal aid programs may find the PLUS loan very beneficial. A PLUS loan may help a student pay the difference between the cost of attendance and other estimated financial aid resources. Repayment begins 60 days after the loan is disbursed, or parents may also defer repayments until their child has graduated or ceased attending at least half-time. PLUS loans involve private lenders and require a separate application in addition to the FAFSA. For more information, contact the Student Financial Services Office or visit [www.oc.edu/loans](http://www.oc.edu/loans).

### Federal Work Program

Federal Work-Study (FWS) is an on-campus work program that allows you to earn a portion of your university expenses. Jobs include work in the cafeteria, library, maintenance office, and administrative offices. Generally you can work an average of 8 hours per week. Pay is at minimum wage. Awarding of FWS only indicates eligibility. You are responsible for finding a job. Job openings are posted online on the university's website at [www.oc.edu/campusjobs](http://www.oc.edu/campusjobs).

## SCHOLARSHIP AND AID PROGRAMS

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

Presidential Academic Success Scholarships (PASS) reward academic achievement tied to outstanding student performance on the ACT and SAT college entry tests. To retain these awards, you must maintain a 2.8 cumulative GPA. All academic awards are reviewed on an annual basis for each class.

National Merit Scholars are coming to Oklahoma Christian in record numbers. To recognize and encourage these students to attend OC, the university makes a very generous scholarship available. Applicants may submit a copy of the award letter or National Merit certificate to the Student Financial Services Office to receive more information.

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

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

Air Force Scholarship recipients receive military instruction through an agreement with the University of Oklahoma. This arrangement gives students the opportunity to join Air Force ROTC while attending Oklahoma Christian. The cooperative agreement with the University of Oklahoma exempts OC students from paying fees and insurance at OU. The only cost to the student is for the ROTC credit. Classes meet on the OU campus. AFROTC offers a variety of scholarships in pre-nursing, computer science, engineering, and other majors offered at OC. After completing a degree and the AFROTC program, a student will be commissioned as an officer in the U.S. Air Force and will also have a guaranteed job after graduation. Application forms and further information may be obtained from Air Force ROTC, Detachment 675, University of Oklahoma, Norman, OK 73019-0604; (405) 325-3211.

Employment opportunities are available for students who desire work, but do not qualify for Federal Work-Study programs. On-campus and off-campus job opportunities are posted on the university's website at [www.oc.edu/jobs](http://www.oc.edu/jobs).

## OTHER AID PROGRAMS

### **John B. Whitley/Student Government Association Loan Fund**

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

### **Veterans Programs**

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

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

### **BIA Grants**

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

### **Vocational Rehabilitation Programs**

Vocational rehabilitation assistance is available to qualified

applicants. High school counselors should be contacted for the address of local vocational rehabilitation counselors.

For more information on financial aid or scholarships, please visit the Student Financial Services Office website at [www.oc.edu/financial](http://www.oc.edu/financial).

## ACADEMIC POLICIES

### ADMISSION

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

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

To be granted full admission to OC, you must complete these additional steps:

- Provide one of the following:

#### **For high school graduates:**

An official high school transcript that shows evidence of graduation.

#### **For applicants 18 or over who have not graduated from high school:**

Evidence of having passed the GED test.

#### **For transfers from other colleges or universities:**

All transfers must have official academic transcripts from each college or university attended sent to Oklahoma Christian. To be considered for admission, you must be eligible to re-enter the schools previously attended if still open. For any transfer students with less than 24 semester hours of college credit, an official high school transcript that shows evidence of graduation must also be sent to OC.

Transfer credit will be accepted from regionally-accredited colleges and universities upon approval of the Registrar. A maximum of 65 semester hours from community/junior colleges may be applied toward degree requirements. Some course work from unaccredited colleges may be validated through credit by examination (see Credit by Examination Policies, page 26).

#### **For transfers from preacher training schools:**

A complete official transcript from the preacher training school and any other college or university attended plus a letter of recommendation from the Academic Dean of the preacher training school.

#### **For home-schooled students:**

A transcript and high school graduation records from recognized home school associations, GED test, or approval of admissions committee.

- Provide proof of English proficiency. International students must submit TOEFL, IELTS, or TOEIC scores. The minimum score for admission is: TOEFL – 500 PBT or 61 IBT or higher, IELTS – 6.0 or higher, TOEIC – 600 or higher.
- ACT or SAT scores. Oklahoma Christian University does not require international students to submit ACT or SAT scores for admission. However, ACT or SAT minimum scores may be used to qualify international students for Academic Scholarships.

See page 26 for minimum ACT or SAT test scores required for Academic Scholarship eligibility.

- Complete a health information form provided to the applicant by the university.
- Submit a housing reservation form with an \$85 room deposit for dormitory residents and a \$150 room deposit for apartment residents.

Eligible high school juniors may obtain early admission to OC and attend the summer session before their senior year. Students who do not want to work toward a bachelor's degree may be admitted as non-degree students by completing all six steps listed above.

### **International Student Admission**

International students must complete all six steps above to be considered for admission. In addition, they must complete the financial information form that OC will send upon application for admission. This form must be accompanied by financial documentation, as required by the U.S. Immigration and Naturalization Service. All transcripts must include a certified translation in English.

OC provides a wide range of support and services for international students. Assistance is provided in university enrollment, visa compliance, cross-cultural adjustment, and tutoring. You are invited to join the International-American Association, the campus association promoting cross-cultural friendships and awareness.

### **For More Information**

For answers to questions or for an application, please write or call:

Office of Admissions  
Oklahoma Christian University  
P.O. Box 11000  
Oklahoma City, OK 73136-1100  
(405) 425-5050 or (800) 877-5010  
<http://www.oc.edu/admissions>

### **For Information on Graduate Studies**

For information on the Master of Divinity or the Master of Arts degree, contact the Graduate School of Theology at the above address or call (405) 425-5370.

For information on the Master of Business Administration degree, contact the School of Business Administration at the above address or call (405) 425-5565.

For information on the Master of Science in Engineering degree, contact the School of Engineering at the above address or call (405) 425-5400.

## CLASSIFICATION OF STUDENTS

### **Freshmen**

Students with fewer than 30 semester hours credit.

### **Sophomores**

Students with 30 to 59 semester hours credit.



## Juniors

Students with 60 to 89 semester hours credit.

## Seniors

Students with 90 or more semester hours credit.

## Full-time

Students taking 12 semester hours or more during any semester.

## Special

Students taking fewer than 12 semester hours during any semester.

## Audit

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

## Unclassified

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

## ACADEMIC STATUS

### Good Standing

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

Freshman	1.70	(D)
Sophomore	2.00	(C)
Junior	2.00	(C)
Senior	2.00	(C)

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

### Academic Alert

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

### Academic Probation

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

### Academic Suspension

When you have completed two semesters on academic probation without achieving the level of good standing, you may be suspended. Appeals of suspension should be addressed in writing to the Registrar, who will present the case to an academic suspension appeals committee.

A suspended student may be re-admitted once, and the re-admitted student must attain a 2.0 GPA each semester while on probation.

You will be removed from probation only when a cumulative GPA of 2.0 has been reached.

The university may suspend or dismiss any student who fails to earn a GPA of at least 1.0 during a semester, regardless of classification or number of hours completed.

## FINAL EXAMS

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

## GRADING SYSTEM

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

- A Superior performance in which the student demonstrates:
  - 1. A thorough knowledge and retention of the factual material of the subject.
  - 2. A thorough understanding of the principles of the material studied.
  - 3. A timely and accurate completion of the course requirements such as homework, term papers, etc.
  - 4. An ability to apply and correlate the subject material to the solution of new and different problems.
- B Good performance in which the student demonstrates:
  - 1. An above average knowledge and retention of the factual material of the subject.
  - 2. An adequate understanding of the principles of the material studied.
  - 3. A timely and accurate completion of the course requirements.
  - 4. Some ability to apply and correlate the subject material to the solution of new and different problems.
- C Adequate performance in which the student demonstrates:
  - 1. An average knowledge and retention of the factual material of the subject.
  - 2. Some understanding of the principles of the material studied.
  - 3. Satisfactory completion of the course requirements.
- D Poor performance in which the student demonstrates:
  - 1. Limited knowledge and retention of the factual material of the subject.
  - 2. Limited or no understanding of the principles of the material studied.
  - 3. Unsatisfactory completion of the course requirements.
- F Failing performance in which the student demonstrates:
  - 1. Little or no knowledge and retention of the factual material of the subject.
  - 2. Little or no understanding of the principles of the materials studied, and/or
  - 3. A failure to satisfactorily complete the course requirements.

Other grades which may be awarded are as follows:

- NP A no-passing grade in a course that does not give a letter grade.
- P A passing grade in a course that does not give a letter grade.
- W Withdrawn from a course after the fourth week and before the 12th week.
- I Granted if you have not met the requirements of the course due to illness, an emergency, or some other cause deemed reasonable by the instructor. A grade of "I" is not given when you have simply been negligent of class requirements. A grade of "I" is removed by the completion of the necessary work within six weeks after the semester ends. The professor has an option to grant an extension if warranted based on a request by you within the first six weeks. If a grade has not been submitted by the professor at the end of 12 weeks, the Registrar will convert the grade from an "I" to an "F".

The specific course requirements such as term papers, homework, attendance, special projects, and the number and scope of examinations are at the discretion of each professor. You should consult the course syllabus for the specific requirements and grading scale for each class.

If you repeat a course at OC, the higher grade only is used to compute the GPA. The original grade will remain on the transcript.

### Grade Appeals

Any student may appeal a final grade received in a course.

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

#### Step 1 – Contact the Professor

If you disagree with a professor on a course grade or other grade-related issue you must contact the professor directly to explain the concern or complaint. If you do not bring the matter to the professor's attention within three weeks of the final grade report, you lose the right of appeal.

#### Step 2 – Appeal to the Chair

If interaction with the professor does not resolve the issue, you have two weeks to appeal to the chair of the professor's school or department. Otherwise, you lose the right of appeal and the issue is considered closed. If the professor is the chair, you will take the appeal to the dean.

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

After review, the chair may make the decision and explain it to you 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.

#### Step 3 – Appeal to the Dean

If the chair chooses the above option, and if you or the professor are not satisfied that the chair's decision is fair and just, either may appeal to the dean of the professor's college within one week.

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

After review, the dean may make the decision and present it to the student, the professor, and the chair within two weeks or, if the dean considers the matter sufficiently serious or complex, he may take the matter to the Deans' Council.

#### Step 4 – Appeal to the Deans' Council

If the dean chooses the above option, and if you or the professor are not satisfied that the dean's decision is fair and just, either may initiate an appeal to the Deans' Council within one week. The dean will present a copy of the original appeal and any documents submitted by the professor.

The Deans' Council will discuss the matter with you and your professor individually. After review, the decision of the Deans' Council is final and must be reported in writing to all involved parties by the Vice President for Academic Affairs.

### Academic Honors

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

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

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

### Graduate with Honors

Students graduate with honors at these levels:

cum laude	3.40
magna cum laude	3.60
summa cum laude	3.85

## POLICY ON ACADEMIC HONESTY

### Cheating

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

### Plagiarism

One particular form of cheating is plagiarism. Plagiarism is transmitting of another's ideas, words, or materials as one's own and/or the failure to credit accurately the ideas, words, or materials of another. Plagiarism also includes passing off the work of another (a friend, a parent, a website) as one's own. Plagiarism undermines the ethics of the academy and the specific Christian purposes of OC.

If you engage in cheating and/or plagiarism you will face serious consequences, as outlined in the policy following:

### Penalties for Academic Dishonesty

- On the first offense, you will receive a "0" for the examination or assignment. Professors shall send documentation of the first offense to the appropriate chair, the dean of the appropriate college, the Vice President for Academic Affairs, and the Dean of Students.
- On the second offense, you will receive an "F" in the course. Professors shall send documentation of the second offense to the appropriate chair, the dean of the appropriate college, the Vice President for Academic Affairs, and the Dean of Students.
- If you receive an "F" in two courses for cheating or plagiarism, you will be suspended from the university.

Professors should maintain the highest standards of academic honesty both in and out of the classroom. Professors must apply the rules regarding cheating and plagiarism and report to the appropriate channel. The student should be referred to the OC Covenant for principles which should guide conduct in such matters.

### FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

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

1. The right to inspect and review your education records.
2. 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.
3. 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.
4. 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.
5. The right to obtain a copy of the university's student records policy. You may obtain a copy of the policy from the Office of the Registrar in Cogswell-Alexander Hall. You will be notified annually of these rights in the Catalog and the Student Handbook.

### STUDENTS WITH DISABILITIES

OC seeks to be learner-friendly for students with disabilities. If you have diagnosed disabilities, you should direct your inquiries to Amy Janzen at (405) 425-5907. Disability documentation must be provided from an appropriately qualified professional (i.e., physician, psychiatrist, or psychologist). Each semester, you must meet with Ms. Janzen 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.

### CLASS SCHEDULING

The university makes every reasonable effort to offer all classes for which registration has occurred. There are times, however, when insufficient enrollment in the class makes it necessary for the university to cancel the section. There are times when you may attempt to register for a class that has already filled. Once a class

is filled, students may place themselves on the waiting list for that particular section. Please keep these situations in mind as you schedule classes needed to complete your degree.

### DROP AND ADD PROCEDURES

#### Dropping a Class

To drop a class you must do the following:

1. Get your advisor's signature on a change in enrollment form.
2. Get your professor's signature, unless the drop is made before the last day to add classes.
3. Take the drop/add slip to the Office of the Registrar.

#### Semester Drop Schedule

Weeks 1-4	No record of dropped course
Weeks 5-12	"W" recorded for dropped course
After Week 12	No dropping of course

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

You may withdraw from a course(s) through week 12 of the semester with a grade of "W" recorded on the transcript. Drop and add deadlines are published in the official class schedule for each semester and in the catalog calendar.

### DROP/ADD DATES FOR SPECIFIC TYPE OF CLASS STRUCTURE

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

#### REGULAR 15-WEEK TERM:

1. Cannot add after the 1st week of class
2. Can drop without a grade of "W" week 1-4
3. Can drop with a grade of "W" week 5-12
4. Cannot drop after week 12

#### ONE-WEEK COURSE – MEETS 5 TIMES: Each class = 3 weeks

1. Cannot add after the 1st class meets
2. Can drop without a grade of "W" day 1
3. Can drop with a grade of "W" day 2-4
4. Cannot drop after day 4

#### TWO-WEEK COURSE – MEETS 10 TIMES: Each class = 1½ weeks

1. Cannot add after 1st class meets
2. Can drop without a grade of "W" days 1-2
3. Can drop with a grade of "W" days 3-8
4. Cannot drop days 9-10

#### THREE-WEEK COURSE – MEETS 6 TIMES: Each class = 2½ weeks

1. Cannot add after 1st class meets
2. Can drop without grade of "W" days 1-2
3. Can drop with a grade of "W" days 3-4
4. Cannot drop days 5-6

#### THREE-WEEK COURSE – MEETS 12 TIMES: Each class = 1¼ weeks

1. Cannot add after 1st class meets
2. Can drop without grade of "W" days 1-3
3. Can drop with a grade of "W" days 4-9
4. Cannot drop days 10-12

#### THREE-WEEK COURSE – MEETS 15 TIMES: Each class = 1 week

1. Cannot add after 1st class meets
2. Can drop without a grade of "W" days 1-4
3. Can drop with a grade of "W" days 5-12
4. Cannot drop days 13-15

#### FOUR-WEEK COURSE – MEETS 20 TIMES: Each class = ¾ week

1. Cannot add after day 2
2. Can drop without a grade of "W" days 1-5

3. Can drop with a grade of "W" days 6-16
4. Cannot drop days 17-20

### Adding a Class

To add a class, you must do the following:

1. Get your advisor's signature on a drop/add slip.
2. Get the signature of the Registrar if the add is made after the deadline for adding classes or if the class will raise your course load above 17 hours.
3. Take the drop/add slip to the Office of the Registrar.

## ADDITIONAL CREDIT PROGRAMS AND TESTING

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

### Credit by Independent Study

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

You should take the initiative to propose a study or project to the dean and the faculty director before enrollment. Arrangements for periodic progress checks should be made within two weeks after the semester begins. You normally will not be allowed to take by independent study a course that is regularly offered. Normally, no more than 12 semester hours in independent study may be applied toward a degree. Faculty who agree to supervise an independent study must post the syllabus for the independent study in the online site for syllabi.

### Extracurricular Credit

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

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

## CREDIT BY EXAMINATION POLICIES

### ACT or SAT Exams

The ACT or SAT is required of all entering freshmen except for international students. You should take the test during the regular testing periods during your junior or senior year in high school since some scholarship offers are based on test scores. College credit may be received if you achieve the ACT score required by OC for certain areas:

1. For an ACT English subscore of 28 or above, you will receive credit for ENGL-1123 – Communication I
2. For an ACT Math subscore of 28 or 29, you will receive credit for MATH-1143 – Elements of Math I

3. For an ACT Math subscore of 30 or higher, you will receive credit for MATH-1143 and for MATH-1213 – College Algebra.

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

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

### CLEP and Other Exams

In addition to the possibility of receiving college credit through ACT testing, if you have had sufficient experience, training, or study in a subject area, you may apply to take College Level Examination Program (CLEP) subject exams or CLEP general exams published by the College Entrance Examination Board in order to receive academic credit. CLEP exams are offered to entering freshmen during the summer orientation programs or by special arrangement on an individual basis with IT Services – (405) 425-1803. You also may take CLEP exams after the semester begins if you meet the written guidelines. See the listing at the end of the following guidelines for CLEP exams offered and courses for which credit may be obtained.

### ACT and CLEP Guidelines

1. No waiting period is required between the time you may take the national ACT and the time you may take the residual ACT, or vice versa. However, you must wait a minimum of 60 days between taking two residual ACT exams or between taking two national ACT exams.
2. A non-refundable payment of \$75 (subject to change without notice) for each CLEP exam and \$30 for each residual ACT exam must be made to OC at the time the test is given. Charges will not be added to your account.
3. Only those who are enrolled at OC or who have been accepted for admission to the university may receive credit by examination.
4. A minimum of 12 semester hours must be earned in class work at OC before credit earned by examination will be recorded.
5. You may not attempt credit by examination for courses that you have audited or in which you are, or have been, enrolled and in which you have attended any classes at OC or any other university. If you wish to take a CLEP exam for credit in a course in which you are currently enrolled, then you must drop the course within the first week of the semester.
6. You may attempt to receive credit by CLEP examination again after six full months.
7. Except where specifically provided for by a program, credit by examination may not be given in a course sequentially lower in the department or a prerequisite to a course for which you have received credit.
8. You may receive up to 60 semester hours of credit by examination. The amount you may take by correspondence or



extension will be reduced accordingly.

9. Credit earned by proficiency examination does not count toward the resident requirement of 30 semester hours.
10. If you have taken and passed a course at an unaccredited institution and wish to validate that work through the procedures outlined in this policy, you may do so. This credit is considered equivalent to transfer work and does not satisfy the requirement calling for 30 semester hours in residence or

the requirement calling for one half of the major at OC.

11. You must pass CLEP examinations with a score determined by the university to receive course credit at OC. Credit received is recorded on your permanent record with a grade of "P" for passing.

## CLEP TESTS OFFERED AT OC AND REQUIRED SCORES

Subject Examinations	OC Req. Score	Course Code	OC Course
American Government**	63	POLS-2113	Introduction to American Politics
Pre-Calculus	61	MATH-1213 & MATH-1522	College Algebra/Trigonometry
Calculus	64	MATH-2114	Calculus I with Analytical Geometry
College Algebra	63	MATH-1213	College Algebra
College Mathematics	62	MATH-1143	Elements of Mathematics I
Freshman College Composition	59	ENGL-1123	Communication I: Written Communication
History of U.S. I	56	HIST-2213	History of the U.S. to 1877
History of U.S. II	57	HIST-2223	History of the U.S. since 1877
Humanities	56	FINE-2913	Perspectives in Fine Arts
General Biology	57	BIOL-2013	Biology I
General Chemistry	65	CHEM-1115 or CHEM-1314	General Chemistry or General Chemistry for Engineers
Information Systems/Computer Applications	60	INFO-2113	Introduction to Computers in Business
Principles of Macroeconomics	62	ECON-2113	Macroeconomic Principles
Principles of Microeconomics	64	ECON-2213	Microeconomic Principles
Introduction to Psychology	59	PSYC-1113	General Psychology
Introduction to Sociology	59	SOCI-1113	Perspectives in Sociology
Western Civilization I: Near East-1648	57	HIST-2923	Perspectives in Western Civilization
Western Civilization II: 1648-Post WWII	56	HIST-2923	Perspectives in Western Civilization
** Must be accompanied by Macroeconomics credit to receive credit for POLS-1213. NOTE: No CLEP tests will be accepted for upper division business courses.			

## ADVANCED PLACEMENT EXAMINATIONS AND REQUIRED SCORES

AP Course	Score	Course Code	OC Course
Art History	3	FINE-2913	Perspectives in Fine Arts
Art/Studio/Drawing	3	ARTS-1113	Fundamentals of Drawing
Biology	3	BIOL-2013	Biology I
Biology	4+	BIOL-1214 & 1314	Botany & Zoology
Chemistry	4	CHEM-1115	College Chemistry
Computer Science A	3	CMSC-1113	Programming
Computer Science B	3	CMSC-1113 & 1123	Programming I & II
Economics/Macro	3	ECON-2113	Macroeconomics
Economics/Micro	3	ECON-2213	Microeconomics
English Language/Composition	3	ENGL-1123	Communication I
English Literature/Composition*	3	ENGL-1123	Communication I
European History	3	HIST-2923	Perspectives in Western Civilization
French, Language	3	FRNC-1113 & 1213	Beginning French I & II
German, Language	3	GERM-1113 & 1213	Beginning German I & II
Government and Politics	3	POLS-2113	Introduction to American Politics
Human Geography	3	GEOG-2113	Elements of Human Geography
Math/Calculus AB	3	MATH-2114	Calculus I with Analytical Geometry
Math/Calculus BC	3	MATH-2114 & 2214	Calculus II with Analytical Geometry
Music/Listening/Literature	3	FINE-2913	Perspectives in Fine Arts
Music Theory	3	MUSC-1112	Music Theory I
Psychology	3	PSYC-1113	General Psychology
Physics/B	3	PHYS-1514	College Physics I
Physics/C Mechanics	3	PHYS-2513	Physics I
Physics/C E&M	3	PHYS-2613	Physics II
Spanish Language	3	SPAN-1113 & 1213	Beginning Spanish I & II
Statistics	3	MATH-2913	Statistical Methods
U.S. History	3	HIST-2213 or 2223	History of the U.S. to 1877 or History of the U.S. since 1877
U.S. History	4	HIST-2213 & 2223	History of the U.S. to 1877 and History of the U.S. since 1877
World History	3	HIST-2923	Perspectives in Western Civilization

\*No CLEP credit given for English Literature, ENGL-2213

## INTERNATIONAL BACCALAUREATE PROGRAM

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

International Baccalaureate Higher-Level Course	Equivalent OC Course	Minimum Score	Semester Credit Hours
Biology	BIOL-1314 – General Zoology	4	4
Chemistry	CHEM-1115 – General Chemistry	4	5
Economics	ECON-2113 – Macroeconomics	4	3
Higher Mathematics	MATH-2114 – Calculus I	4	4
History-America	HIST-1223 – Turning Points in U.S. History	4	3
History-European	HIST-2923 – Western Civilization	4	3
Language A: English	ENGL-1123 – Written Communication I	4	3
Music	FINE-2913 – Perspectives in Fine Arts	4	3
Physics	PHYS-1514 – College Physics	4	4
Social Anthropology	SOCI-1113 – Introduction to Sociology	4	3

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

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

### Departmentally-Prepared Challenge Exams

Departmentally-prepared exams are extensive examinations over specific subjects or courses. Approval for the examination, the type of examination to be used, or for other work to be performed will be left to the department. Application forms are available in the Office of the Registrar.

The charge for credit under this policy will be a \$20 fee for the examination, whether passed or failed, and \$10 per semester hour of credit fee to record it on the transcript if it is passed. In case of validation of unaccredited work, the latter charge will not be made.

If you make a grade of “C” or above on a departmentally-prepared examination, the course will be recorded with credit given and a grade of “P” for passing. You may not attempt an examination in the same course more than one time.

### Retroactive Credit for Foreign Language

You may begin university language study at the level appropriate to your background in the language. Upon completion of course numbers 1213, 2113, or 2123 with a grade of “B” or better or upon passing a departmentally-prepared exam, you may apply for retroactive credit for all previous courses in the foreign language sequence. The application for such credit must be approved by the

professor and the department chair. You must then pay \$10 per semester hour in the Office of the Registrar to have the retroactive credit recorded.

### Air Force ROTC Credit

You have a unique opportunity to join Air Force Reserve Officer Training Corps (AFROTC) while attending Oklahoma Christian. A cooperative agreement exists between OC and the University of Oklahoma (OU) that exempts OC students from paying most fees and insurance at OU. Basically, the only cost to you is for the AFROTC credit hour(s). AFROTC classes meet on the OU campus, which is approximately 45 minutes from OC.

AFROTC offers a variety of scholarships in computer science, engineering, and other majors that you can pursue at OC. After completion of the degree and the AFROTC program, you will be commissioned as an officer in the United States Air Force and also have a guaranteed job after graduation. For more information, contact the University of Oklahoma.

### Army ROTC Credit

Two-, three-, and four-year programs are available to you through a cooperative agreement between Oklahoma Christian and the University of Central Oklahoma (UCO). This allows you to commute to UCO and attend Army ROTC classes while continuing to pursue your degree at OC.

Through the Army Reserve Officers' Training Corps Program (ROTC), the Department of Military Science offers two programs. After completion of the degree and the ROTC program, you will be commissioned as an officer in the United States Army, the Army Reserves, or the Army National Guard. For more information, contact UCO.

## CLASS ATTENDANCE

### Class Periods

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

### Absence Policy

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

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

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

### Students and VA Benefits

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

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

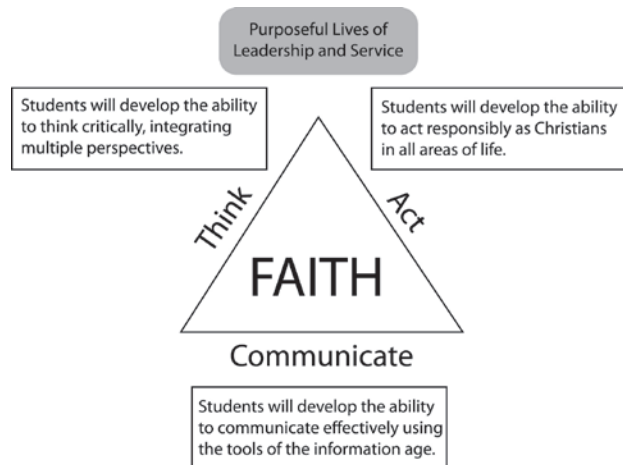
If you have questions about your VA benefits, contact the Office of the Registrar at (405) 425-5206.

## CORE CURRICULUM

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

To accomplish this mission, the university is committed to educating you from a foundation of Christian faith to think, communicate, and act in a complex, demanding, and changing global community.

That commitment is depicted in the core curriculum model that appears in the figure below and is explained more specifically in the following paragraphs.



### FAITH

Our aim is to "take every thought captive to make it obedient to Christ" (II Cor. 10:5b). This means that our faculty and you are involved in an ongoing project to explore and promote the Christian worldview.

In every discipline, we make Christ – the Incarnate Word of God – and the Bible – the written Word of God – the foundation of our intellectual growth and moral development. This knowledge of the Word of God is essential equipment for Christian scholars.

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

Therefore, we commit ourselves to creating and communicating a Christian analysis of every discipline we study, believing that in doing so, we help our Christian students develop an aggressive faith; and we expose our non-Christian students to a wider array of thought than they would encounter in most secular universities.

You are not required to hold any position on scriptures or to agree with any application of them but are required to learn the information and skills necessary to meet the stated objectives. Professors seek to be open to and understanding of the views of all students while affirming their own position. Faith is, therefore, the central concept in our core curriculum model. All of the specific objectives listed in each category are built on this central concept.



## THINK

You will demonstrate comprehension of basic Bible knowledge, the Christian worldview, and New Testament Christianity.

You will develop the cognitive ability to think critically and creatively, using appropriate methods of study, research, reasoning, and problem solving.

You will develop the integrative habit of mind that examines the intersections of the Christian worldview and personal faith with contemporary and historical views of the sciences, arts, and humanities.

You will obtain a basic knowledge of other cultures, including such areas as religion, politics, economics, history, geography, and languages that will lead to a substantive understanding of diverse cultures and faiths.

You will develop an understanding of the role of science, technology, mathematics, arts, and humanities in the development of Western culture and civilization by examining the history of individuals, movements, concepts, and principles that have revolutionized the way we think about our world.

## COMMUNICATE

You will communicate ideas effectively to others, including those of cultures and faiths different from your own, and receive ideas efficiently from others.

You will manage information effectively, using the tools of the information age.

## ACT

You will exhibit a personal faith – informed by scripture – that glorifies God, Christ, and the Holy Spirit; provides a hope of heaven; and serves as a foundation for a life of leadership and service.

You will become a better citizen by improving your understanding of American history and the political and economic issues faced by American society.

You will develop the life skills for personal behavior management, social interaction, and family management that will enhance your life.

The core curriculum program consists of 60 semester hours of work required of all who graduate.

These requirements were determined by the mission and purposes of the institution and the faculty's judgment regarding the common needs of all students.

To achieve these objectives, the faculty has established the following core curriculum requirements:

## Basic Skills (14 hours)

1. SDEV-1101 Freshman Seminar (not required of those transferring with 32 hours or more)
2. ENGL-1123 Communication I: Written Communication
3. COMM-1213 Communication II: Oral Communication
4. ENGL-2113 Communication III: Research and Presentation
5. PHED-2511 Physical Fitness and Wellness
6. Math course, choose one from:
  - A. MATH-1143 Elements of Mathematics I
  - B. Any other higher-level mathematics class (e.g., MATH-1413 – Finite Mathematics; MATH-1213 – College Algebra)

## Core Bible (16 hours)

1. Choose 16 hours from the following textual Bible courses
  - Freshman year
    - BIBL-1212 Life of Christ: Matthew
    - BIBL-1312 Life of the Early Church, Acts
  - Sophomore year
    - BIBL-2202 Story of the Old Testament
    - BIBL-2302 Story of the New Testament
  - Junior or senior year
    - BIBL-4222 Senior Bible Seminar
2. Choose 6 additional hours from the following
  - BIBL-3002 Genesis and Exodus
  - BIBL-3102 I Corinthians
  - BIBL-3512 Prison Epistles
  - BIBL-3712 Hebrews
  - BIBL-4312 The Prophet Isaiah
  - BIBL-4412 Great Christian Doctrine

Juniors and seniors may substitute up to two of the following non-textual courses to meet the core curriculum requirement.

- BIBL-2312 Evidences of Christianity
- BIBL-2512 Personal Evangelism
- BIBL-3413 Christian Family
- BIBL-3423 Archaeology and the New Testament
- BIBL-3433 Archaeology and the Old Testament
- BIBL-4622 The Book of Psalms
- MISS-3033 Biblical Missions Methods
- RLED-3222 Religious Education of Children

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

Transfer hours	Required OC Bible hours
1 to 12	16*
13 to 31	14*
32 to 47	12*
48 to 63	10*
64 to 79	8*
80 or more	6*

\*or reach the total of 16 hours, including transfer hours. The number of Bible hours required for transfer students is determined at the time of your initial enrollment at OC. Subsequent transfer hours do not affect the number of hours required.

Freshmen and sophomores must take one textual Bible course in each semester they are full-time students. These courses may not be dropped.

### Basic Perspectives (27 hours)

1. American Citizenship, 6 hours  
POL-1213 American Political Economy  
HIST-1223 Turning Points in U.S. History
2. Behavioral Science, 3 hours  
PSYC-1113 General Psychology I  
or  
SOCI-1113 Perspectives in Sociology
3. Literature and Fine Arts, 6 hours  
ENGL-2213 Perspectives in Literature  
FINE-2913 Perspectives in Fine Arts
4. Science, 6 hours Choose from:  
Biological Science  
Option I – Take BIOL-2013 – General Biology I and BIOL-2023 General Biology II.  
Option II – Take a minimum of 6 hours of biological science courses, excluding remedial courses, and include at least one course with a laboratory component. Prerequisites must be met.  
or  
Physical Science  
Option I – Take GNSC-2313 – Physical Science I, The Earth and GNSC-2323 – Physical Science II, Astronomy  
Option II – Take at least 6 hours of any combination of courses from the areas of chemistry, physics, and general science, excluding remedial courses and GNSC-1711, GNSC-2711, GNSC-3711, and GNSC-4712. Include at least one course with a laboratory component. Prerequisites must be met.
5. Global Civilization, 6 hours  
You must complete three credit hours each in Western civilization and in a non-Western civilization course. You may complete this requirement in several different ways.

No more than three credit hours toward this requirement may be earned through approved International Experience. All International Experience credits are subject to approval by the Director of International Programs.

### GLOBAL CIVILIZATION

	Western Civilization	Non-Western Civilization
International Studies	European Studies Program	Pacific Rim Program
International Experience	Approved International Experience in Europe with assignments in civilization and cross-cultural communication	Approved International Experience in Asia or Africa with assignments in civilization and cross-cultural communication
Course Work	Perspectives in Western Civilization	World Religions, World Political Geography, New Religious Movements, Introduction to Asian Civilization, The Modern Middle East, Perspectives in World Music

### Integration Requirements (3 hours)

1. PHIL-4113 Senior Philosophy Seminar

### Incoming Students Transferring classes to OC

Courses taken at regionally-accredited colleges and universities will be accepted for credit at OC. These may or may not fulfill specific requirements depending on the courses taken.

Prior to taking a course at another university to fulfill a requirement, you must fill out a transfer approval form. A core curriculum course must be approved by the Registrar. A course within the major must be approved by the dean or department chair, then the Registrar. A course may not be taken at another college or university to replace a grade for any course that has been taken at OC.

### Students with Associate or Baccalaureate Degrees from another Institution

If you transfer to OC with an associate degree designed to provide the core curriculum background for a baccalaureate degree, OC will consider the hours taken before coming to OC when determining your core curriculum requirements. The associate degree program must include at least 30 hours in courses typically required for the core curriculum, with at least one course in the following seven categories: Communication, Math, American Citizenship, Behavioral Science, Literature/Fine Arts, Science, and Global Civilization.

If you have fulfilled at least five of these categories prior to coming to OC, you will be able to complete courses on campus to fulfill up to two deficient areas in the seven categories. You also will be required to complete the following courses at OC: 6-8 hours of Bible, to include BIBL-4222 – Senior Bible Seminar; and PHIL-4113 – Senior Philosophy Seminar. Those completing a second baccalaureate degree at OC will be covered by the same policy. You may transfer all approved courses from an accredited junior college. A maximum of 65 hours from a junior college will apply toward a degree.

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

Computer Literacy OC is a wireless laptop campus. All full-time undergraduate students are issued an Apple MacBook computer upon enrollment.

The university's core curriculum program incorporates opportunities for you to become familiar with basic computer applications. These experiences should serve as a foundation for you to use computers in your own personal and professional areas of interest. If you desire an in-depth knowledge of computers you may elect specific courses in computer science or information systems.

### REQUIREMENTS FOR ALL BACCALAUREATE DEGREES

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

1. You must have satisfied all entrance requirements.
2. You must complete at least 126 semester hours.
3. For first time transfer students to OC, you must complete a minimum of 30 semester hours in a major and a minimum of 18 hours in a minor. At least one-half, or 22 hours (whichever is smaller), of the work in the major or major/minor program must be completed at OC. In majors that contain a specialization, at least three-fourths of the work required for that specialization must be completed at OC.
4. You must complete the core curriculum requirements as listed in the catalog.
5. You must have at least 10 semester hours of courses numbered 3000 or above in your major field and a total of not less than 30 semester hours overall in such courses.
6. You must have a total GPA on all courses of not less than 2.0 and the same overall average on all work done in the major field.
7. You may not count toward graduation more than 15 semester hours with a grade of "D". If you have more than 15 hours of "D" grades in courses required for graduation, you must retake the specific course or courses to replace those "D" grades.
8. You must complete at least 30 semester hours at OC (at least 15 of which must be in the senior year), be a full-time student for at least one semester, and be in attendance during the semester of graduation.
9. You normally will follow the requirements of the catalog in effect at the time of admission to the university. No catalog will be binding for more than seven years. Therefore, at the point of graduation, you must meet the requirements of a catalog that has been in effect no more than seven years. Any exceptions must be approved by the dean of the student's college and the Registrar.

### Second Baccalaureate Degrees and Double Majors

For a second baccalaureate degree or a double major, you must first receive written approval from the Dean(s) of the respective college(s), and then you must complete the requirements for the specific major with a minimum of 18 additional hours unique to the second degree or major, beyond the first degree or major. A minimum of 144 total semester hours will need to be completed by the end of the second degree or major. Students not receiving their first bachelor's degree from Oklahoma Christian University will need to also complete 6 hours of Bible, to include BIBL 4222 – Senior Bible Seminar and PHIL 4113 – Senior Philosophy.

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

### Post-Enrollment Transfer Credit

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

- Obtain written approval on a Transfer Request Form before registering for the courses at another institution.
  - o Approval for courses within the major must come from the Department Chair for that major.
  - o Approval for general education courses must come from the Registrar.
  - o Students may not take more than 15 hours of transfer credit.

#### Limitation of Transfer Credit

- Once a student begins at OC he or she may not transfer in more than 15 hours of credit to count toward graduation, of which no

more than 6 hours of his or her major can be transferred back to OC. Transfer credit in the major must be approved by the student's major department, as explained above.

- Specific departments may have additional transfer restrictions.
- Only credit from a regionally accredited college or university will be accepted as transfer credit.
- Technical or vocational credits are not eligible for transfer and may not, therefore, be used to satisfy degree requirements.
- Current OC students must have transfer credit approved prior to enrolling in a class away from the OC campus. A Transfer Request Form is available online and in the Registrar's Office.
- A course may not be taken at another college or university to replace a grade for any course that has been taken at OC.

## REQUIREMENTS FOR GRADUATION

You must have completed all of your graduation requirements prior to participating in commencement. Commencement will be held on December 17, 2010 and April 29, 2011.

### Bachelor of Arts Degree

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

1. Meet the core curriculum requirements for all bachelor's degrees.
2. Meet the requirements for a major in one of the departments offering the Bachelor of Arts degree: Bible, communication, english, history, history/pre-law, interdisciplinary studies, music, missions, psychology, religious education, spanish, TEFL, or youth ministry.
3. In addition to the other core curriculum requirements, complete two courses (minimum total of six hours) in the same foreign language. See page 45 for retroactive credit for foreign language.

### Bachelor of Business Administration Degree

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

1. Meet the core curriculum requirements for all bachelor's degrees.
2. Meet the requirements for one of the majors in the School of Business Administration.

### Bachelor of Fine Arts Degree

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

1. Meet the core curriculum requirements for all bachelor's degrees.
2. Meet the requirements for a major in advertising design, new media, interior design or art.

### Bachelor of Music Education Degree

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

1. Meet the core curriculum for all bachelor's degrees.
2. Meet the music department's requirements in music, music technique, music education, and applied music.
3. Meet the requirements for teacher certification.

### Bachelor of Science Degree

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

1. Meet the core curriculums for all bachelor's degrees.
2. Meet the requirements for a major in one of the departments offering the Bachelor of Science degree: Bible, biochemistry,

biology, chemistry, computer science, family studies, forensics, history/pre-law, information systems, interdisciplinary studies, mass communication, mathematics, mathematics/computer science, medical technology, organizational communication, physical education, or psychology.

### **Bachelor of Science in Computer Engineering Degree**

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

1. Meet the core curriculum requirements for all bachelor's degrees.
2. Meet the requirements for the major in computer engineering.

### **Bachelor of Science in Education Degree**

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

1. Meet the core curriculum for all bachelor's degrees.
2. Meet the requirements for teacher education in either elementary education, early childhood, or some field of secondary education.

### **Bachelor of Science in Electrical Engineering Degree**

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

1. Meet the core curriculum requirements for all bachelor's degrees.
2. Meet the requirements for the major in electrical engineering.

### **Bachelor of Science in Mechanical Engineering Degree**

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

1. Meet the core curriculum requirements for all bachelor's degrees.
2. Meet the requirements for the major in mechanical engineering.

### **Bachelor of Science In Nursing**

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

1. Meet the core curriculum requirements for all bachelor's degrees.
2. Meet the requirements for the major in nursing.

## **SPECIAL ASSISTANCE**

Students with Disabilities – Refer to page 25 for more information.

## **BRIDGE PROGRAM**

- Students with composite ACT scores of 19-36 are admitted under regular admission.
- Students with composite ACT scores of 18 and below are admitted through the Bridge Program.
- The aims of the Bridge Program are to alert you to the academic issues that may impede your progress toward completion of a degree and to provide the academic support resources necessary to help you succeed. The Bridge Program Director will mentor you in an effort to prepare you for success in university-level work and will oversee required study sessions, which are an integral part of the Bridge Program.

### **The Bridge Program is described as follows::**

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

- Personal and Professional Strategies for Success 2 credit hours
- Developmental Writing or Comm I 3 credit hours  
(Based on ACT English subscore.)
- Intermediate Algebra or College Algebra 3 credit hours  
(Based on ACT Math subscore.)
- Fitness and Wellness 1 credit hour
- The Life of Christ: Matthew 2 credit hours
- Freshman Seminar 1 credit hour
- Total 12 credit hours

Students have the option of adding one additional course with Director approval. Students will continue to have meetings with the director and receive academic support services through successful completion of 64 credit hours.

## **Student Development Courses**

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

## **Writing**

OC is committed to helping you meet the fundamental objective of effective written communication. The university requires students with an English ACT of 18 or lower to enroll in SDEV-0123 – Developmental Writing before enrolling in ENGL-1123 – Communication I: Written Communication. Developmental Writing allows you to master basic grammar skills and gain confidence needed to succeed in the core curriculum's communication sequence and other university-level courses. Students enrolled in SDEV-0123 must achieve a grade of "P" (Passing) before enrolling in ENGL-1123.

## **Mathematics**

OC requires that you have proficiency in and understanding of mathematics. You must complete a mathematics requirement. The required course varies according to the specialized needs of the major curriculum.

- Students in business programs must have MATH-1213-College Algebra
- Students in the sciences must have MATH-1213-College Algebra
- Most others must complete MATH-1143 – Elements of Mathematics I or MATH-1153 – Elements of Mathematics II

To assist students who are not adequately prepared for the required mathematics course, OC offers a developmental math course. Intermediate Algebra (SDEV-0103) is required for those with a Math ACT subscore of 22 or lower as preparation for one of the mathematics courses that satisfy the university's core curriculum requirements. This course reviews high school algebra, including polynomials, equation solving, and graphing. This course is graded with a grade of "P" (Passing) or a grade of "NP" (Not Passing). This course does not satisfy the core curriculum mathematics requirement.

## **THE LANGUAGE AND CULTURE INSTITUTE**

The Language and Culture Institute at Oklahoma Christian University was established to provide English courses for international undergraduate, and graduate students. A key role LCI plays at Oklahoma Christian University is to facilitate students of English as a Second Language (ESL) to develop the kind of English proficiency that will lead to success in all their academic endeavors.



To meet these goals, LCI students practice academic tasks such as writing research papers, giving oral presentations, and participating in group discussions and projects. By using an integrated skills approach, students are able to not only study English but more importantly, use English; thus acquiring the necessary skills for a successful academic career. In addition to English instruction, LCI provides orientation, conversation partners, cultural experiences, social events, and recreational activities above and beyond its quality academic preparatory program.

Aligning with the overall mission of Oklahoma Christian, the Language and Culture Institute is transforming lives for Christian faith, leadership, and service. The Language and Culture Institute provides the highest quality instruction in English as a second language, and orientation in U.S. culture to international students who are nonnative speakers of English. At the Language and Culture Institute, we provide quality English language instruction with care and respect for our students' cultural heritage in a comfortable, fun, and safe learning environment. We inspire learning and the achievement of excellence in all of our students, staff, and faculty through innovative and well-informed methods of instruction. Ultimately, LCI assists in the pursuit of our students' personal, academic, and professional goals.

The Language and Culture Institute at Oklahoma Christian University offers courses in English as a Second Language at the low-intermediate, high-intermediate, and advanced levels. The curriculum prepares students for university credit courses. The curriculum consists of college preparatory reading and vocabulary, composition, grammar, speaking skills and research writing at three levels of instruction.

Low-Intermediate	High-Intermediate	Advanced
Academic Reading	Academic Reading	Academic Reading
Academic Writing w/ Grammar	Academic Writing w/ Grammar	Academic Writing w/ Grammar
Oral Communication w/ Grammar	Oral Communication w/ Grammar	Oral Communication w/ Grammar
	OC Credit Course	OC Credit Course
American Studies & Culture (OC Credit Course)		
Academic Interactions		
English Media		
Technology & Computer Skills		
Personal and Professional Development (OC Credit Course)		
TOEFL Preparation		

## STUDY ABROAD PROGRAMS

The mission of OC's Office of International Programs is to deepen and broaden the intellectual, social, spiritual, and aesthetic awareness of student and faculty as they study, travel, and serve in other cultures. Eligible students will have completed a minimum of two semesters at OC with a 2.5 GPA. In order to meet the above mission, OC offers the following programs:

### Semester Programs (13 weeks – 12-15 Credit Hours)

#### • European Study Program (Fall)

Students spend the fall semester in Europe with visits to England, Austria, Italy, and additional countries depending on the yearly itinerary. A full course of study is offered in core curriculum classes. Participants have the option of engaging in mission work during the semester.

#### • Pacific Rim Study Program (Fall)

Also offered during the fall semester, this tour moves from point to point in the Pacific Rim: China, Japan, New Zealand, and Australia. A full schedule of core curriculum courses is offered and students will also attend lectures and classes in China, Japan, and Australia. During your stay in Japan, you will live with Japanese families. Extensive involvement in mission work also is offered.

### Summer Programs

#### • Summer European Study Program (6 weeks – 6-7 Credit Hours)

Modeled after the semester-long European program, this program provides you the opportunity to study and travel in Europe for six weeks during the summer. There also is an option to stay for an extended time for mission work.

#### • HonduraServe Program (2 weeks)

In partnership with Predisan Medical Mission in Honduras. You will gain professional international experience working in medical clinics.

#### • Canada Shakespeare Tour (10 days – 3 Credit Hours)

In this program, you will attend the Shakespeare Festival in Stratford, Ontario, earning credit in Communication III: Research and Presentation, Perspectives in Fine Arts, Perspectives in Literature, or an upper-division literature or theater course.

### One-Year Exchange Programs

• One-Year Study Program at Ibaraki Christian and Korea Christian Universities OC sends two students per year to take two semesters of work at these sister institutions. The program for OC students begins in May and ends in December. In addition to full-tuition scholarships, other scholarship money sometimes is available.

### Internship

#### \*Turkey (3-6 credit hours)

Through a partnership with Let's Start Talking (LST) ministries, Oklahoma Christian is able to offer a 6-week program in Antalya, Turkey. Students participate in experiences that allow them to be more involved in the local culture. Field trips include Ephesus and Istanbul. Strong emphasis is placed on mission work.

## COUNCIL OF CHRISTIAN COLLEGES AND UNIVERSITIES PROGRAMS

Through OC's affiliation with the Council of Christian Colleges and Universities (CCCU), you may apply to participate in a number of outstanding special study programs, described below. Up to four OC students per semester may apply to participate in CCCU programs. If more than four students express interest, the International Programs Committee will decide which students may apply for a CCCU program in a given semester. For more information, contact the office of Dr. Allison Garrett, Vice President for Academic Affairs, or the Office of International Programs. Students who participate in a CCCU study abroad program should plan their returning semester's schedule prior to leaving the country, or should make plans to access the OC online schedule from abroad.

### • American Studies Program

Founded in 1976 under the direction of Dr. John A. Bernbaum, the program has challenged hundreds of students to integrate faith with the realities of the marketplace and public life through experiential learning in the nation's capital. A combination of class time and internships provides you with a total of 16 hours of academic credit for the semester.

Course topics cover national and world events from a variety of perspectives, integrating biblical reflection and policy analysis through classroom lectures, site briefings, small group discussions, and personal research. Briefings occur in places like the White House, Pentagon, State Department, congressional chambers, and national think-tank conference rooms.

### • Latin American Studies Program

Students interested in a total immersion experience would love the Latin American Studies Program (LASP), where they live with a Costa Rican family as they study language and culture.

The program is designed for Christian students who are learning to integrate faith and values with knowledge and experience. It is for those who desire to find out for themselves what God asks of them and what it means to act on what they learn in all areas of life. The goal of LASP is to prepare students to live the Christian life in a world that is multi-ethnic and multi-cultural. Understanding another culture requires the study of both its society and language, for neither exists independently. LASP is designed to integrate these two elements, giving you the best possible opportunity to deepen your own cross-cultural understanding.

### • Middle East Studies Program

The Middle East Studies Program (MESP) seeks to prepare you to live the Christian life in a world that is religiously and culturally pluralistic, in the Middle East, North America, or other parts of the world.

Studying in the Middle East gives you the opportunity to leave your familiar North American campus, explore firsthand today's troubled world, and with this experience, to understand more fully your place and role in it. The rigorous academic program seeks to go beyond theoretical learning to a deeper, moral type of learning. Intense encounters with different worldviews and truth-claims help to facilitate this while the MESP community fosters a supportive environment.

### • China Studies Program

China is going through monumental changes that encompass all aspects of life: economic, social, religious, and political. This is a historic time as the country becomes increasingly open to exchanges of students and scholars and other interactions with the West. With this new openness, comes an unprecedented opportunity to gain knowledge and understanding of China's people, culture, and language. Now is the time to experience China.

The China Studies Program (CSP), an interdisciplinary semester program, enables you to view China from the inside, to experience its culture and its diversities. Participants are able to observe the evolution of "socialism with Chinese characteristics" and China's struggles with rapid modernization and social change. In addition, CSP students confront the misunderstandings that have existed between China and the West from each side of that divide. This happens through formal classes and study tours, but especially by meeting and interacting informally with Chinese undergraduates on campus.

### • Honors Program – Oxford

Honors students and other highly-qualified students have the exciting opportunity to study in England through this interdisciplinary semester in Oxford. The rigorous academic program, aimed at increasing critical thinking skills and scholarship from an integrated Christian perspective, allows participants to choose from a wide variety of tutorial study programs in numerous disciplines, including the arts, religion, history, literature, and philosophy. In addition to two tutorials, you participate in a seminar and an integrative course through which you produce a scholarly project or term paper. Field trips provide opportunities for experiential learning in England's rich historical setting. Students earn 16 semester hours of credit.

The overall aim of the program is to provide each student with rigorous training in particular disciplines within the context of a broad and well-balanced academic, cultural, and social life. Certain qualities are necessary if you are to obtain maximum benefit from an education here: an inquiring mind, a critical approach to facts, and, above all, a capacity for creative as well as analytical thought. In considering the individual applicant, the greatest importance is attached to the recommendations from faculty members who have personal knowledge of your work.

### • Los Angeles Film Studies Center

Students who choose to attend the Los Angeles Film Studies Center (LAFSC) are exposed to a true "behind-the-scenes" look at the work and workings of Hollywood, yet at the same time are a part of a Christian-based educational program committed to understanding what it means to be "salt and light" in this unique and powerful industry. The entire experience of classes, internships, and Christian fellowship provides you with an opportunity to test your interest in pursuing a career in the mainstream entertainment industry.

The mission of the LAFSC is to prepare you academically for placement in the mainstream Hollywood film industry, preferably in decision-making positions, with a Christ-centered vision to dynamically influence film content, the production process, and interpersonal relationships. In addition, the mission includes the development of advocates to advance an informed and discerning approach to understanding the media, as well as an appreciation for, and support of, the work of your peers in Hollywood.

- **Russian Studies Program**

It is a historic time to spend a semester living in the Republic of Russia, and the Russian Studies Program (RSP) makes this possible. The RSP gives you the opportunity to be on the edge of discovery as political and economic events have a daily impact on the Russia of tomorrow and its relationship with the West. You can witness how the Holy Spirit is building the Church and strengthening ties between North American and Russian Christians.

- **Oxford Summer Program**

The Oxford Summer Program is a program of the CCCU and Wycliffe Hall, Oxford. The program is designed for students wishing to gain a more comprehensive understanding of the relationship between Christianity and the development of the West and who wish to do specialized work under expert Oxford academics in the areas of history, religious studies, English, and history of science.

- **Summer Institute of Journalism**

The Summer Institute of Journalism serves to introduce journalism students to the print media in the nation's capital and helps equip them for future work in the profession. You travel to Washington, D.C., for a month-long program (mid-May to mid-June) focused on practical daily instruction in the craft of writing news coupled with "real-world" news gathering and news writing assignments. Journalists representing various national media outlets – including the Washington Post, PBS Religion & Ethics News Weekly, USA Today, and many others – contribute extensively to the program.



## ACADEMIC PROGRAMS OVERVIEW





# ACADEMIC PROGRAMS OVERVIEW

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## Departmental abbreviations

ACCT—Accounting; ARTS—Art; BUSA—Business Administration; BIOL—Biology; BIBL—Bible; CENG—Computer Engineering; CHDV—Child Development; CHEM—Chemistry; COMM—Communication; CMSC—Computer Science; ECED—Early Childhood Education; ECON—Economics; EDUC—Education; ELEM—Elementary Education; ELEC—Electrical Engineering; ENGL—English; ENGR—Engineering Science; FINE—Fine Arts; FINC—Finance; FRNC—French; FMST—Family Studies; GERM—German; GREK—Greek; GNSC—General Science; GEOG—Geography; HBRW—Hebrew; HIST—History; HONR—Honors; INFO—Information Systems; INTL—International Studies; JAPN—Japanese; MATH—Mathematics; MECH—Mechanical Engineering; MGMT—Management; MISS—Missions; MKTG—Marketing; MEDT—Medical Technology; MUSC—Music; NURS—Nursing; PHED—Physical Education; PHYS—Physics; PHIL—Philosophy; POLS—Political Science; PSYC—Psychology; RLED—Religious Education; SDEV—Student Development; SPAN—Spanish; SOCI—Sociology; YTMN—Youth and Family Ministry.

## THE HONORS PROGRAM

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

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

Admission to the programs is based on high school GPA of 3.5 or higher, a minimum ACT of 28 or SAT of 1250, evidence of writing skills, and an interview.

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

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

The advantages of the Honors Program include small classes, challenges to solve problems, and interaction with other serious and thoughtful students. Students interact readily with their professors in Honors courses. All the professors cooperate to help you understand your abilities and your potential. The program provides intellectual growth, close contact with equally motivated peers,

significant interaction with professors, and an enlarged view of the world.

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

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

### The Honors curriculum includes

HONR-1010	Symposium I
HONR-1020	Symposium II
HONR-1114	Western Thought and Expression I
HONR-1124	Western Thought and Expression II
HONR-1214	The Bible and Classical Literature
HONR-1224	The Bible, Science, and Human Values
HONR-2010	Symposium III
HONR-2020	Symposium IV
HONR-2113	The Quest for Meaning: Christ and the Good Life
HONR-2123	The Quest for Identity: Race, Class, and Gender in American Thought
HONR-3111	Symposium V
HONR-3121	Symposium VI
HONR-4111	Symposium VII
HONR-4121	Senior Honors Seminar

In addition to the Honors curriculum, students must take the following courses: 9 hours of Bible (including BIBL-2202, Story of the Old Testament, BIBL-2302, Story of the New Testament, 3 hours Bible elective, and BIBL-4222, Senior Bible Seminar), Communication I (majority have ACT or CLEP credit), Math (majority have ACT or CLEP credit), Science (with lab), and 3 hours of international experience or foreign language.



## COLLEGE OF BIBLICAL STUDIES DEGREE REQUIREMENTS



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

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

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

### AREAS OF STUDY

Bible (BIBL)  
Greek (GREK)  
Hebrew (HBRW)  
Missions (MISS)  
Religious Education (RLED)  
Youth and Family Ministry (YTMN)

### DEGREES OFFERED

B.A. Degree in Bible  
B.A. Degree in Bible and Ministry  
B.A. Degree in Missions  
B.A. Degree in Religious Education  
B.A. Degree in Youth Ministry

M.A. Degree in Ministry  
M.A. Degree in Ministry (Family Life)  
M.A. Degree in Ministry (Youth and Family)  
M.Div. Master of Divinity Degree  
(see graduate catalog)

### VOCATIONAL MINISTRY

(Chosen as a second major only)

### MINORS

Bible  
Biblical Languages  
Church History  
Missions  
Non-textual Bible  
Religious Education  
Youth Ministry

### FACULTY

Alan Martin, A.A., B.A., M.A., Ph.D., Dean of the College of Biblical Studies, associate professor of Bible and family ministry  
Jim Baird, B.A., M.Div., D.Phil. professor of Bible and philosophy  
Robert Carpenter, B.A., M.A., M.A., Ph.D., professor of ministry and missions  
Dudley Chancey, A.A., B.S., M.S., Ph.D., associate professor of youth ministry



James Dvorak, B.A., M.A., M.Div., Ph.D. (candidate), associate professor of New Testament and Greek  
 Loren Gieger, B.A., M.Div., Ph.D., professor of New Testament  
 John Harrison, B.A., M.A., Ph.D., professor of New Testament and ministry  
 Chip Kooi, B.A., M.A., Ph.D., professor of theology  
 Lynn McMillon, B.A., M.A., M.Th., Ph.D., Dean Emeritas distinguished professor of Bible  
 Stafford North, B.A., M.A., Ph.D., distinguished professor of Bible  
 Harold Shank, B.A., M.A., M.A.R., Ph.D., professor of Old Testament  
 Richard Wright, B.Mus., A.B., M.A., M.T.S., Ph.D., chair of the graduate Bible program, associate professor of Bible

## LOCATION

Classrooms and Faculty Offices,  
 Williams Branch Center for Biblical Studies  
 Dean's Office  
 Williams Branch Center for Biblical Studies, Office 1

## DEGREE REQUIREMENTS

The following courses are designated as core curriculum Bible courses that may be chosen by all students. It is recommended that Bible majors concentrate on upper-level courses that are designed specifically for Bible majors. A student must take 16 hours of Bible to meet the core curriculum requirements.

Freshmen and sophomores must take one textual Bible course in each semester they are full-time students; these courses may not be dropped.

### Freshman year

BIBL-1212 Life of Christ: Matthew  
 BIBL-1312 Life of the Early Church: Acts

### Sophomore year

BIBL-2202 Story of the Old Testament  
 BIBL-2302 Story of the New Testament

Juniors and seniors will take Senior Bible Seminar, Christ and His Church (BIBL-4222) and 6 hours chosen from the following:

*Note: If, in the remaining 6 hours, only one three-hour course and one two-hour course are taken, a one-hour shortfall in the core curriculum requirement will result. The student must take 16 hours of Bible to meet the core curriculum requirement.*

BIBL-2312 Evidences of Christianity  
 BIBL-2512 Personal Evangelism  
 BIBL-3002 Genesis and Exodus  
 BIBL-3102 I Corinthians  
 BIBL-3153 Introduction to Church Growth  
 BIBL-3203 Biblical Exegesis  
 BIBL-3413 Christian Family  
 BIBL-3423 Archaeology and the New Testament  
 BIBL-3433 Archaeology and the Old Testament  
 BIBL-3512 Prison Epistles  
 BIBL-3712 Hebrews  
 BIBL-4312 The Prophet Isaiah  
 BIBL-4412 Great Christian Doctrine

BIBL-4622 The Book of Psalms  
 MISS-3033 Biblical Missions Methods  
 MISS-3313 Cross-Cultural Ministry  
 RLED-3222 Religious Education of Children

*Note: Bible courses taken for the following majors will also satisfy the hours required in Bible for the core curriculum.*

## B.A. Degree in Bible

**47 hours, plus 6 additional hours in biblical languages required, minor required**

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

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

1. Demonstrate above average knowledge of the Bible, its chronology and themes.
2. Demonstrate the ability to exegete, organize and present biblical subjects in a contemporary relevant manner.
3. Demonstrate an above average knowledge of and ability in essential ministry skills such as teaching, counseling, evangelizing and relating to people.
4. Demonstrate knowledge of the world beyond the church and an ability to relate to it in a meaningful manner.

### Degree requirements

1. 20 hours core courses
  - BIBL-2512 Personal Evangelism
  - BIBL-2713 Introduction to Ministry
  - BIBL-3013 Hermeneutics
  - BIBL-3203 Biblical Exegesis
  - BIBL-3823 Counseling for Ministers
  - BIBL-3913 Preparation and Delivery of Religious Speeches
  - BIBL-4753 Seminar in Christian Ministry
2. 9 hours minimum Old Testament textual courses
3. 12 hours minimum New Testament textual courses
4. 6 hours non-textual Bible courses
  - A. 3 hours required non-textual Bible
    - BIBL-4713 Restoration Movement
  - B. 3 hours other non-textual Bible courses

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

GREK-1113 Elementary Greek I  
 GREK-1213 Elementary Greek II  
 or  
 HBRW-3113 Elementary Hebrew I  
 HBRW-3213 Elementary Hebrew II (May also count as Old Testament textual)

## B.A. Degree in Bible and Ministry

**67 hours, plus 12 additional hours in biblical languages required, no minor required**

This program is designed especially for students wishing to be pulpit ministers. The degree prepares students for the work of a local minister and lays a foundation for graduate studies. It is also the recommended degree for those who have not yet defined a specific area of ministry.

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



1. Demonstrate above average knowledge of the Bible, its chronology, and themes.
2. Demonstrate the ability to exegete, organize, and present biblical subjects in a contemporary relevant manner.
3. Demonstrate an above average knowledge of and ability in essential ministry skills such as teaching, counseling, evangelizing, and relating to people.
4. Demonstrate knowledge of the world beyond the church and an ability to relate to it in a meaningful manner.

#### Degree requirements

1. 25 hours foundation courses
 

BIBL-2512	Personal Evangelism
BIBL-2713	Introduction to Ministry
BIBL-3013	Hermeneutics
BIBL-3203	Biblical Exegesis
BIBL-3823	Counseling for Ministers
BIBL-3913	Preparation and Delivery of Religious Speeches
BIBL-4753	Seminar in Christian Ministry
BIBL-4773	Advanced Homiletics
  - RLED-4213 Religious Education of Adolescents  
or  
RLED-4222 Religious Education of Adults
  2. 27 hours textual Bible courses
    - A. 9 hours Old Testament textual courses
    - B. 12 hours New Testament textual courses
    - C. 6 hours elective textual courses
  3. 12 hours non-textual Bible courses
    - A. 3 hours required non-textual courses  
BIBL-4713 Restoration Movement
    - B. 9 hours other non-textual courses
  4. 3 hours practicum course  
BIBL-4803 Ministry Practicum
- A student must take 12 hours of Greek or 6 hours of Greek and 6 hours of Hebrew in addition to the above degree requirements for the B.A. in Bible and Ministry.
- |           |  |
|-----------|--|
| GREK-1113 | Elementary Greek I   |
| GREK-1213 | Elementary Greek II  |
| GREK-2113 | Intermediate Greek I<br>(May also count as New Testament textual)  |
| GREK-2213 | Intermediate Greek II<br>(May also count as New Testament textual) |
| HBW-3113  | Elementary Hebrew I  |
| HBW-3213  | Elementary Hebrew II<br>(May also count as Old Testament textual)  |

#### **B.A. Degree in Missions**

##### **61 hours, plus 6 additional hours in biblical languages required, no minor required**

The B.A. in Missions, like all other Bible-related degree programs at OC, provides an acquaintance with the biblical text and the necessary auxiliary studies to allow special preparation for mission work.

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

1. Learn how to communicate biblical truths effectively to people from cultural backgrounds different from their own.
2. Become more aware of and sensitive to cultural differences than

they were when they arrived on campus so that they can serve people from different cultural backgrounds effectively with a reduced likelihood of offending those people.

3. Experience how New Testament Christianity functions in different cultural contexts through campaigns, missions internships, and, in some cases, overseas studies opportunities.
4. Be sufficiently grounded in the Scriptures to be able to teach the word of God competently and faithfully regardless of the cultural context.
5. Gain sufficient competence in a modern language other than English so as to be able to communicate at least at a basic level with a native speaker of that language.
6. Learn the importance of the church in God's plan of salvation for people of every nation, every tongue, and every tribe.
7. Learn the importance of growing spiritually and receive instruction in how to go about pursuing spiritual growth throughout their lives.

#### Degree requirements

1. 17 hours core courses
 

BIBL-2512	Personal Evangelism
BIBL-2713	Introduction to Ministry
BIBL-3013	Hermeneutics
BIBL-3203	Biblical Exegesis
BIBL-3823	Counseling for Ministers
BIBL-4753	Seminar in Christian Ministry
2. 3 hours chosen from
 

RLED-3222	Religious Education of Children
RLED-4213	Religious Education of Adolescents
RLED-4222	Religious Education of Adults
BIBL-3913	Preparation and Delivery of Religious Speeches
3. 3 hours chosen from
 

BIBL-3173	Church History to 1517
BIBL-3183	Church History 1517 to Present
BIBL-4713	Restoration Movement
4. 13 hours required missions courses
 

MISS-3013	Mission Preparation
MISS-3213	Church Growth
MISS-3613	Cultural Anthropology
MISS-4714	Missions Practicum
5. 6 hours elective missions courses
6. 19 hours textual Bible courses
  - A. 5 hours Old Testament textual courses
  - B. 5 hours New Testament textual courses
  - C. 9 additional hours textual Bible courses

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

- |           |  |
|-----------|--|
| GREK-1113 | Elementary Greek I   |
| GREK-1213 | Elementary Greek II  |
|           | or   |
| HBW-3113  | Elementary Hebrew I  |
| HBW-3213  | Elementary Hebrew II (May also count as Old Testament textual) |

*Note: In addition to the 6 hours of Greek, Missions majors will be required to fulfill the Bachelor of Arts language requirement with 6 hours of a modern foreign language.*

## **B.A. Degree in Religious Education**

**67-71 hours, plus 6 additional hours in biblical languages required, no minor required**

This major is for those wishing to work primarily in the educational program of the church. It combines study of the biblical text with practical application courses. This degree allows a student to select a concentration area from adult education, campus ministry, or children's ministry.

An OC graduate with a Bachelor of Arts degree in Religious Education:

1. Is committed to being a servant leader in family, community, and church.
2. Is devoted to Christ and seeks to emulate Him both in life and as a teacher of the Word.
3. Be able to teach the great themes of the Bible, effectively utilizing different elements of the Bible which contribute to that story.
4. Be able to use techniques of exegesis and hermeneutics to discover the meaning of scripture and from that can present practical and effective Bible lessons.
5. Be able to use proficiently the teaching techniques of lesson planning, organization, illustration, stories, and multi-media in teaching the Bible.

### Degree requirements

1. 50 hours chosen from

#### A. 23 hours core courses

- BIBL-2512 Personal Evangelism
- BIBL-2713 Introduction to Ministry
- BIBL-3013 Hermeneutics
- BIBL-3203 Biblical Exegesis
- BIBL-3823 Counseling for Ministers
- BIBL-3913 Preparation and Delivery of Religious Speeches
- BIBL-4753 Seminar in Christian Ministry
- RLED-3113 Teaching the Bible

#### B. 21 hours textual Bible

1. 9 hours Old Testament
2. 12 hours New Testament

#### C. 6 hours chosen from

- BIBL-3413 Christian Family
- FMST-2423 Parent-Child Relations  
(required for Children's Ministry concentration area)
- PSYC-3523 Developmental Psychology

2. Choose one of the following concentration areas

#### A. Adult Education 21 hours

1. 11 hours required
  - RLED-3213 Organization and Administration of the Bible School
  - RLED-4213 Religious Education of Adolescents
  - RLED-4222 Religious Education of Adults
  - RLED-4313 Volunteers, Parents, and Staff in Youth and Family Ministry

2. 3 hours chosen from

- PHED-4513 Recreational Activities for the Handicapped
- EDUC-3003 American Sign Language I

3. 3 hours chosen from

- MISS-3113 Women in Missions

- MISS-4113 Ministry to Women

4. 4 hours practicum

- RLED-4844 Practical Experience In Special Ministries or

- RLED-4812 Practical Experience in Special Ministries I and

- RLED-4822 Practical Experience in Special Ministries II

#### B. Campus Ministry 17 hours

1. 3 hours required

- RLED-3423 Ministry to College and University Students

2. 2 hours chosen from

- RLED-4213 Religious Education of Adolescents

- RLED-4222 Religious Education of Adults

3. 8 hours chosen from

- BIBL-2312 Evidences of Christianity

- BIBL-3673 New Religious Movements

- FMST-3523 Human Sexuality

- MISS-3513 World Religions

- PSYC-3523 Developmental Psychology

- YTMN-3113 Evangelism, Discipleship, and Spiritual Foundation with Adolescents

4. 4 hours practicum

- RLED-4844 Practical Experience In Special Ministries or

- RLED-4812 Practical Experience in Special Ministries I and

- RLED-4822 Practical Experience in Special Ministries II

#### C. Children's Ministry 18 hours

1. 11 hours required

- RLED-3213 Administering Local Church Programs and Bible School

- RLED-3222 Religious Education of Children

- RLED-3232 Curriculum Development for Children's Ministry

- RLED-3612 Spiritual Development of Children

- RLED-4412 Special Issues in Children's Ministry

2. 3 hours chosen from

- RLED-4313 Volunteers, Parents, and Staff in Youth and Family Ministry

- PHED-4513 Recreational Activities for the Handicapped

3. 4 hours practicum

- RLED-4844 Practical Experience in Special Ministries or

- RLED-4812 Practical Experience in Special Ministries I and

- RLED-4822 Practical Experience in Special Ministries II

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

- GREK-1113 Elementary Greek I

- GREK-1213 Elementary Greek II or

- HBRW-3113 Elementary Hebrew I

- HBRW-3213 Elementary Hebrew II (May also count as Old Testament textual)

## **B.A. Degree in Youth Ministry**

**71 hours, plus 6 additional hours in biblical languages required, no minor required**

The major in youth ministry offers students an opportunity to make

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

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

1. "Know thyself".
2. Plan and lay out a yearly program of activities that reinforce the core values of the Christian faith, the local church, and the youth group.
3. Involve the parents of adolescents and other volunteers in the youth and family program, utilizing their gifts.
4. Refer to parents, authorities, and/or counselors when adolescents are at risk.
5. Share the Gospel specifically using methods to reach adolescents.
6. Disciple and assist adolescents in their spiritual formation.
7. Use and teach scripture effectively.

#### Degree requirements

1. 20 hours required core major courses
  - BIBL-2713 Introduction to Ministry
  - BIBL-3013 Hermeneutics
  - BIBL-3203 Biblical Exegesis
  - BIBL-3823 Counseling for Ministers
  - BIBL-4753 Seminar in Christian Ministry
  - RLED-2512 Personal Evangelism and
  - RLED-3113 Teaching the Bible or
  - BIBL-3913 Preparation and Delivery of Religious Speeches
2. 30 hours youth ministry and related courses
  - A. 18 hours youth ministry courses
    1. 6 hours required
      - RLED-4213 Religious Education of Adolescents
      - YTMN-4823 Youth Ministry Practicum
  - 2. 9 hours chosen from
    - YTMN-2123 Counseling Adolescents
    - YTMN-2213 Introduction to Youth and Family Ministry as a Profession
    - YTMN-2233 Experiential Teaching Methods in the Outdoors
    - YTMN-3113 Evangelism, Discipleship, and Spiritual Formation with Adolescents
    - YTMN-3213 Models and Programming in Youth Ministry
    - YTMN-4113 Adolescent Spirituality, Morality, and Culture
    - YTMN-4313 Volunteers, Parents, and Staff in Youth and Family Ministry
3. 3 hours practicum
  - YTMN-4813 Youth Ministry Practicum-Teaching & Programming
- B. 6 hours family courses
  1. 3 hours required
    - FMST-3933 Cybernetics and Systems Theory
  2. 3 hours chosen from
    - FMST-3113 Parent-Child Relations
    - FMST-3913 Family Development
    - BIBL-3413 Christian Family
- C. 6 hours psychology courses
  - PSYC-1113 General Psychology I
  - PSYC-3523 Developmental Psychology

3. 21 hours textual Bible courses
  - A. 6 hours Old Testament textual courses
  - B. 9 hours New Testament textual courses
  - C. 6 hours elective textual courses

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

- GREK-1113 Elementary Greek I
- GREK-1213 Elementary Greek II or
- HBRW-3113 Elementary Hebrew I
- HBRW-3213 Elementary Hebrew II (May also count as Old Testament textual)

#### Vocational Ministry

##### 34 hours, taken only as a second major

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

An OC graduate with any degree and second major in vocational ministry will:

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

#### Degree Requirements

- 34 hours from the College of Biblical Studies
  - A. Must include 17 hours minimum of textual courses
  - B. Must include 17 hours minimum of upper division courses

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

The following five courses are recommended, but not required:

- BIBL-3003 Vocational Ministry
- BIBL-3823 Counseling for Ministers
- BIBL-3913 Preparation and Delivery of Religious Speeches
- MISS-3013 Mission Preparation
- RLED-2512 Personal Evangelism

#### GRADUATE PROGRAM

The College of Biblical Studies also offers a Master of Divinity degree and a Master of Arts degree with majors in general ministry, family life ministry, and youth ministry.

Undergraduates who are considering graduate Bible programs are strongly encouraged to take the following prerequisite courses:

#### 24 hours of undergraduate biblical studies

- BIBL-3013 Hermeneutics
- BIBL-3203 Biblical Exegesis
- GREK-1113 Elementary Greek I
- GREK-1213 Elementary Greek II
- BIBL-3913 Preparation and Delivery of Religious Speeches
- BIBL-3413 Christian Family or one other Family Life course

HBRW-3113 Elementary Hebrew I  
HBRW-3123 Elementary Hebrew II  
(HBRW-3213 encouraged, not required)

For more information regarding graduate studies in the College of Biblical Studies, contact Dr. Richard Wright, at (405) 425-5384 or at richard.wright@oc.edu.

## MINOR REQUIREMENTS

### Bible Minor

Take 25 hours of Bible, textual or non-textual; this may not include missions, religious education, or youth ministry courses. This includes 16 hours of the core curriculum Bible as well as 9 additional hours.

### Biblical Languages Minor

18 hours of Biblical languages including  
12 hours of New Testament Greek and 6 hours of Hebrew

GREK-1113 Elementary Greek I  
GREK-1213 Elementary Greek II  
GREK-2113 Intermediate Greek I  
GREK-2213 Intermediate Greek II  
HBRW-3113 Elementary Hebrew I  
HBRW-3213 Elementary Hebrew II

### Church History Minor

18 hours chosen from the following courses

BIBL-3113 The New Testament Church  
BIBL-3173 Church History to 1517  
BIBL-3183 Church History 1517 to Present  
BIBL-4513 History of the Bible  
BIBL-4713 Restoration Movement  
HIST-3913 Renaissance and Reformation, 1400-1648  
HIST-4613 Medieval Europe, 400-1300

### Missions Minor

18 hours, with 12 hours chosen from missions courses other than Missions Experience, and 6 hours chosen from the following courses

BIBL-3013 Hermeneutics  
BIBL-3113 The New Testament Church  
BIBL-3713 Contemporary Ethics  
BIBL-3823 Counseling for Ministers  
BIBL-4713 Restoration Movement  
MISS-4813 Missions Experience

### Non-textual Bible Minor

18 hours required to be taken from a minimum of two of the following areas: church history, missions, religious education, and youth ministry

*Note: Courses counted in a Bible major or other major requiring courses listed in the College of Biblical Studies may not be counted in a minor.*

### Religious Education Minor

18 hours from the following courses

1. 3 hours required  
RLED-3113 Teaching the Bible
2. 10-15 hours from Religious Education courses

3. Up to 5 hours chosen from  
MISS-3113 Women in Missions  
Any courses in Family Studies, Psychology, or Youth Ministry (except PSYC-1113)

### Youth Ministry Minor

18 hours from the following courses

1. 3 hours required  
BIBL-1713 Introduction to Ministry
2. At least 6 hours chosen from  
YTMN-3113 Evangelism, Discipleship, and Spiritual Formation with Adolescents  
YTMN-4113 Adolescent Spirituality, Morality, and Culture  
YTMN-4313 Volunteers, Parents, and Staff In Youth and Family Ministry
3. 9 hours from other courses in youth ministry or any course in religious education



## COLLEGE OF ARTS AND SCIENCES DEGREE REQUIREMENTS



## AREAS OF STUDY

### Department of Art and Design

Art and Design (ARTS)  
Fine Arts (FINE)  
Interior Design (INTDS)  
New Media

### Department of Biology

Biology (BIOL)  
Biochemistry (BIOL)  
Biochemistry/Molecular Biology (BIOL)  
Medical Technology (MEDT)  
Nursing (NURS)  
Science Education  
Pre-professional programs: pre-medical, pre-dental, pre-veterinary, pre-physical therapy, pre-occupational therapy, pre-nursing, pre-pharmacy, pre-radiation technology, pre-physician associate, and pre-optometry

### Department of Chemistry and Physics

Biochemistry (CHEM)  
Chemistry (CHEM)  
Forensic Science (CHEM)  
General Science (GNSC)  
Science Education

### Department of Communication

Communication (COMM)

### Department of History and Political Science

Geography (GEOG)  
History (HIST)  
Political Science (POLS)

### Interdisciplinary Studies

Culture (CLTR)  
Honors (HNRS)  
Philosophy (PHIL)  
Student Development (SDEV)

### Department of Language and Literature

English (ENGL)  
French (FRNC)  
German (GERM)  
Japanese (JAPN)  
Spanish (SPAN)

### Department of Music

Music (MUSC)

### Department of Psychology and Family Studies

Family Studies (FMST)  
Psychology (PSYC)  
Sociology (SOCL)

## DEGREES OFFERED

### Department of Art and Design

B.A. Degree in Art and Culture  
B.F.A. Degree in Art  
B.F.A. Degree in Gaming and Animation  
B.F.A. Degree in Graphic Design  
B.F.A. Degree in Interior Design

### Department of Biology

B.S. Degree in Biochemistry  
B.S. Degree in Biology  
B.S. Degree in Medical Technology  
B.S.N. Degree in Nursing  
B.S.E. Degree in Science Education

### Department of Chemistry and Physics

B.S. Degree in Biochemistry  
B.S. Degree in Chemistry  
B.S. Degree in Forensic Science  
B.S.E. Degree in Science Education

### Department of Communication

B.A. Degree in Communication Studies  
Areas of Emphasis  
General  
Pre-Law  
B.S. Degree in Mass Communication  
Areas of Emphasis:  
Media Management  
Creative Media  
Interactive Media  
Public Relations  
B.S. Degree in Journalism  
B.S. Degree in Organizational Communication  
B.S. Degree in Theater Performance

### Department of History and Political Science

B.A. Degree in History  
B.A. Degree in History/Pre-Law  
B.S. Degree in History/Pre-Law  
B.S. Degree in Political Science  
B.S.E. Degree in Social Studies

### Interdisciplinary Studies

B.A. Degree in Interdisciplinary Studies  
B.S. Degree in Interdisciplinary Studies

### Department of Language and Literature

B.A. Degree in English  
B.A. Degree in English/Pre-Law  
B.A. Degree in English/Pre-Certification Emphasis  
B.A. Degree in English/Teaching English as a Foreign Language (TEFL)  
B.A. Degree in English/Writing  
B.A. Degree in Spanish

### Department of Music

B.A. Degree in Music  
B.M.E. Degree in Music  
Areas of Emphasis  
Instrumental  
Vocal

### Department of Psychology and Family Studies

B.S. Degree in Family Studies  
B.S. Degree in Family Studies/Child Development  
B.A. Degree in Psychology  
B.S. Degree in Psychology

## MINORS

### Art and Design

Art  
New Media  
Graphic Design  
Interior Design  
Photography

### Biology

Biology

## **Chemistry and Physics**

Chemistry  
Physical Science

## **Communication**

Communication Studies  
Interactive Media  
Mass Communication  
Media Production  
Organizational Communication  
Theater  
Drama Ministry  
Dramaturgy  
Theater Performance

## **History and Political Science**

History  
Political Science  
Social Science

## **Interdisciplinary Studies**

International Studies  
Military Science

## **Language and Literature**

English  
Spanish  
Teaching English as a Foreign Language  
Writing

## **Music**

Music

## **Psychology and Family Studies**

Child Development  
Family Studies  
Psychology

## **FACULTY**

David Lowry, Ph.D., Dean of the College  
of Arts and Sciences, professor of communication

## **Department of Art and Design**

David Crismon, M.F.A., department chair, professor of art and design  
Amy Beauchamp, M.F.A., assistant professor of art and design/  
interior design  
Michael J. O'Keefe, M.F.A., professor of art and design  
Jeff Price, M.F.A., visiting associate professor of art and design

## **Department of Biology**

Timothy VanWagoner, Ph.D., department chair, assistant professor  
of biology  
Kay Elder, M.S.N., assistant professor of nursing  
Linda Fly, M.S.N. Ph.D. (candidate), chair of nursing department,  
assistant professor of nursing  
Shawna Hood, M.S.N., instructor of nursing  
Lisa McWhirter, Ph.D., assistant professor of biology and Director of  
Faculty Development  
Al Mikell, Ph.D., associate professor of biology  
Kris Miller, Ph.D., professor of biology  
Becky O'Neal, M.S.N., assistant professor of nursing  
Eric Phelps, Ph.D., assistant professor of biology  
Beth Scott, M.S.N., assistant professor of nursing  
Richard Trout, M.S., associate professor of biology

## **Department of Chemistry and Physics**

William Luttrell, Ph.D., department chair, associate professor of  
chemistry  
Christopher Austin, Ph.D., assistant professor of physics  
Leonard Feuerhelm, Ph.D., J.D., professor of physics  
Amanda Nichols, Ph.D., assistant professor of chemistry  
Mark Thompson, M.A., instructor of physics  
Howard Vogel, Ph.D., associate professor of chemistry

## **Department of Communication**

Larry Jurney, Ph.D., department chair, professor of mass  
communication  
Barrett Huddleston, Ph.D., assistant professor of speech and  
theater  
David Lowry, Ph.D., professor of communication  
Philip Patterson, Ph.D., distinguished professor of mass  
communication  
Philip Reagan, M.A., associate professor of speech and theater  
Josh Watson, M.A., instructor of communication

## **Department of History and Political Science**

John Maple, Ph.D., department chair, distinguished professor of  
history  
Raymon Huston, Ph.D., associate professor of political science  
Gary Lindsey, Ph.D., associate professor of history  
Matt McCook, Ph.D., associate professor of history

## **Department of Language and Literature**

Cami Agan, Ph.D., department chair, professor of English  
Rebecca Briley, Ph.D., Associate professor of English and  
Coordinator of Composition/Rhetoric  
Merle K. Gatewood, M.A., associate professor of English and  
French  
Peggy Gipson, Ph.D., professor of English  
Scott LaMascus, Ph.D., professor of English and Director of Honors  
Program  
Bailey McBride, Ph.D., professor of English  
Gail Nash, M.A., Ph.D. (candidate), assistant professor of English  
Willie Steele, Ph.D., associate professor of English  
Tina Ware, Ph.D., professor of Spanish

## **Department of Music**

Kathy Thompson, Ph.D., department chair, professor of music  
Ken Adams, D.M.A., professor of music  
John Fletcher, D.M.A., professor of music  
Paula Hutton, M.M.E., Ph.D. (candidate), assistant professor of  
music  
Heath Jones, Ph.D., associate professor of music

## **Department of Psychology and Family Studies**

Ryan Newell, Ph.D., department chair, professor of psychology  
Scott Harper, Ph.D., associate professor of family studies

## **LOCATION**

### **Classrooms and Faculty Offices**

### **Art and Design**

Garvey Center for the Liberal Arts  
Kresge Fine Arts

### **Biology**

Herold Science Hall



Prince Engineering Center  
Vose Hall

### **Chemistry and Physics**

Herold Science Hall  
Prince Engineering Center  
Vose Hall

### **Communication**

Garvey Center for the Liberal Arts  
Mabee Communication

### **History and Political Science**

Davisson American Heritage Building

### **Language and Literature**

Mabee Learning Center

### **Music**

Garvey Center for the Liberal Arts

### **Nursing**

Vose Hall

### **Psychology and Family Studies**

Davisson American Heritage Building

### **Dean's Office**

Garvey Center for the Liberal Arts,  
Room 100

## DEPARTMENT OF ART AND DESIGN

### **B.A. Degree in Art & Culture**

#### **36 hours, minor required**

This major is for the person wanting a general background in the arts, aesthetics, and visual culture.

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

1. Demonstrate effective problem solving skills as applied to visual communications, artistic expression, and graphic design.
2. Demonstrate a working understanding of art history: genres, artists, movements, and practitioners.
3. Articulate an understanding of one's integration of faith and design/artistic expression.
4. Demonstrate the ability to communicate clearly and think independently.
5. Demonstrate a commitment to scholarship and creative expression.
6. Demonstrate an ability to reproduce a visual impression/representation of form, substance, light, and shadow through figure and perspective drawing.

#### **Degree requirements**

1. 15 hours foundation courses
  - ARTS-1103 Technology for Graphics
  - ARTS-1113 Fundamentals of Drawing
  - ARTS-1213 Figure Drawing
  - ARTS-1413 Elements of Visual Thinking
  - ARTS-2523 Form and Communication
2. 3 hours professional design chosen from
  - ARTS-1623 Introduction to Interior Design
  - ARTS-2223 Introduction to Communication Design
  - ARTS-2243 Interactive Media Design I
3. 9 hours art history chosen from
  - ARTS-3333\*\* History of Design
  - ARTS-3343\*\* Ancient to Modern Art History

ARTS-3353\*\* Contemporary Art

4. 6 hours studio courses chosen from

ARTS-2513 Painting I  
ARTS-3113 Printmaking  
ARTS-3523 Illustration I

5. 3 hours Art & Design electives

### **B.F.A. Degree in Art**

#### **75 hours, no minor required**

This major is for the person wanting a general background in art or a vocation in the field of art and its related industries.

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

1. Demonstrate effective problem solving skills as applied to visual communications, artistic expression, and graphic design.
2. Demonstrate a working understanding of art history: genres, artists, movements, and practitioner
3. Articulate an understanding of one's integration of faith and design/artistic expression.
4. Demonstrate the ability to communicate clearly and think independently.
5. Demonstrate a commitment to scholarship and creative expression.
6. Demonstrate an ability to reproduce a visual impression/representation of form, substance, light, and shadow through figure and perspective drawing.

#### **Degree requirements**

1. 65 hours art and design
  - A. 27 hours foundation courses
    - ARTS-1103 Technology for Graphics
    - ARTS-1113 Fundamentals of Drawing
    - ARTS-1213 Figure Drawing
    - ARTS-1413 Elements of Visual Thinking
    - ARTS-2403 Digital Photography
    - ARTS-2523 Form and Communication
    - ARTS-3333\*\* History of Design
    - ARTS-3343\*\* Ancient to Modern Art History
    - ARTS-3353\*\* Contemporary Art
  - B. 6 hours printmaking
    - ARTS-3113 Printmaking: Intaglio and Relief
    - ARTS-3123 Printmaking: Serigraphy
  - C. 6 hours painting
    - ARTS-2513 Painting I
    - ARTS-3213 Painting II
  - D. 6 hours illustration
    - ARTS-3523 Illustration I
    - ARTS-4523 Illustration II
  - E. 3 hours professional design chosen from
    - ARTS-1623 Introduction to Interior Design
    - ARTS-2223 Introduction to Communication Design
  - F. 3 hours required
    - ARTS-3773 The Business of Branding Yourself
  - G.\*15 hours Art & Design Electives
  - H. 9 hours marketing chosen from
    - MGMT-3113 Principles of Management
    - MGMT-3323 Entrepreneurship and Small Business Management
    - MKTG-3313 Principles of Marketing
    - MKTG-3413 Consumer Behavior,



- MKTG-3513 E-Commerce and Online Marketing
- MKTG-4313 Promotional Strategies
- MKTG-4613 Marketing Management

\*If the B.F.A. candidate wants to be a curator or gallery director, we recommend taking ARTS-3533, Historical Interior Design, Antiquity-1850 and ARTS-3633, Contemporary Design, 1840-Present for 6 hours Art and Design electives.

### **B.F.A. Gaming and Animation**

#### **72 hours, no minor required**

The Bachelor of Fine Arts Program in Gaming and Animation prepares students to use emerging media for the purpose of communication design, self-expression and experimentation. G&A Students will have a grasp of industry-level skills and artistic techniques including texturing, unwrapping, animating, and rigging 3D models, game level design, 2d animation techniques, audio production and interactive design.

An OC graduate with a Bachelor of Fine Arts in Gaming and Animation will:

1. Demonstrate effective problem solving skills as applied to visual communications, animation, artistic expression, and graphic design.
  2. Demonstrate a working understanding of art history: genres, artists, movements, and practitioners.
  3. Articulate an understanding of one's integration of faith and design/artistic expression.
  4. Demonstrate the ability to communicate clearly and think independently.
  5. Demonstrate a commitment to scholarship and creative expression.
  6. Demonstrate an ability to reproduce a visual impression/ representation of form, substance, light, and shadow through figure
- Degree requirements
1. 33 hours foundation courses
  - A. 24 hours art and design core required
    - ARTS-1103 Technology for Graphics
    - ARTS-1113 Fundamentals of Drawing
    - ARTS-1213 Figure Drawing
    - ARTS-1413 Elements of Visual Thinking
    - ARTS-2223 Introduction to Communication Design
    - ARTS-2523 Form and Communication
    - ARTS-3523 Illustration I
    - ARTS-3773 The Business of Branding Yourself
  - B. 9 hours art and design history\*
    - ARTS-3333 History of Design
    - ARTS-3343 Ancient to Modern Art History
    - ARTS-3353 Contemporary Art
  2. 18 hours gaming and animation
    - ARTS-2243 Interactive Media Design I
    - ARTS-2403 Digital Photography
    - ARTS-2743 3D Modeling and Animation I
    - ARTS-3163 Animation Principles and Practices
    - ARTS-3173 3D Modeling and Animation II
    - ARTS-4223 Gaming and Animation
  3. 15 hours communication
    - COMM-3453 Broadcast News Production
    - COMM-3633 Audio for Media
    - COMM-3643 Video for Media
    - COMM-3653 TV Field Production

- COMM-3703 Computer Graphics for Broadcast
- 4. 6 hours art and design electives

\*Fulfills 6 hours of core curriculum requirements to replace FINE-2913 and HIST-2923.

### **B.F.A. Degree in Graphic Design**

#### **75 hours, no minor required**

This major is for the person wanting to be an art director, graphic designer, new media designer, account executive, or copywriter for an advertising agency, graphic design studio, "in-house" corporate art department, or interactive design company.

An OC graduate with a Bachelor of Fine Arts degree in Graphic Design will:

1. Demonstrate effective problem solving skills as applied to visual communications, artistic expression, and graphic design.
2. Demonstrate a working understanding of art history: genres, artists, movements, and practitioners.
3. Articulate an understanding of one's integration of faith and design/artistic expression.
4. Demonstrate the ability to communicate clearly and think independently.
5. Demonstrate a commitment to scholarship and creative expression.
6. Demonstrate an ability to reproduce a visual impression/ representation of form, substance, light, and shadow through figure and perspective drawing.

#### **Degree requirements**

1. 66 hours art and design
- A. 21 hours foundation courses
  - ARTS-1113 Fundamentals of Drawing
  - ARTS-1213 Figure Drawing
  - ARTS-1413 Elements of Visual Thinking
  - ARTS-2523 Form and Communication
  - ARTS-3113 Printmaking: Intaglio and Relief or
  - ARTS-3123 Printmaking: Serigraphy
  - ARTS-3343\*\* Ancient to Modern Art History
  - ARTS-3353\*\* Contemporary Art
- B. 30 hours advertising and graphic design
  - ARTS-2223 Introduction to Communication Design
  - ARTS-2233 Type as Visual Language
  - ARTS-3243 Graphic Design
  - ARTS-3253 Print Media Design
  - ARTS-3263 Advanced Graphic Design
  - ARTS-3333\*\* History of Design
  - ARTS-3513 Graphic Arts Production
  - ARTS-3523 Illustration I
  - ARTS-4253 Integrated Marketing Design
  - COMM-3343 Advertising Copywriting
- C. 12 hours digital design
  - ARTS-1103 Technology for Graphics
  - ARTS-2243 Interactive Media Design I
  - ARTS-2323 Digital Design for Print
  - ARTS-2403 Digital Photography
- D. 3 hours required
  - ARTS-3773 The Business of Branding Yourself

## 2. Concentration

Choose one of the following concentration areas

### A. 9 hours of illustration

- ARTS-2513 Painting I
- ARTS-3213 Painting II
- ARTS-4523 Illustration II

### B. 9 hours marketing/management chosen from

- MGMT-3113 Principles of Management
- MGMT-3323 Entrepreneurship and Small Business Management
- MKTG-3313 Principles of Marketing
- MKTG-3413 Consumer Behavior
- MKTG-3513 E-Commerce and Online Marketing
- MKTG-4313 Promotional Strategies
- MKTG-4613 Marketing Management \*prerequisites must be met

### C. 9 hours Gaming, Animation, and Technology Design

- ARTS-2743 3-D Modeling and Animation
- ARTS-3163 Animation Principles and Practices
- ARTS-3443 Interactive Media Design II

## B.F.A. Degree in Interior Design

### 72 hours, no minor required

This major is for persons wanting a career in residential or commercial interior design or a specialty design area.

An OC graduate with a Bachelor of Fine Arts degree in Interior Design will:

1. Demonstrate effective problem solving skills as applied to visual communications, artistic expression, and graphic design.
2. Demonstrate a working understanding of art history: genres, artists, movements, and practitioners.
3. Articulate an understanding of one's integration of faith and design/artistic expression.
4. Demonstrate the ability to communicate clearly and think independently.
5. Demonstrate a commitment to scholarship and creative expression.
6. Demonstrate an ability to reproduce a visual impression/representation of form, substance, light, and shadow through figure and perspective drawing.

#### Degree requirements

##### 1. 63 hours art and design

##### A. 21 hours foundation courses

###### 1 15 hours required

- ARTS-1103 Technology for Graphics
- ARTS-1113 Fundamentals of Drawing
- ARTS-1413 Elements of Visual Thinking
- ARTS-2123 Rendering in Perspective
- ARTS-2523 Form and Communication
- 2. 6 hours art history chosen from\*\*
- ARTS-3333 History of Design
- ARTS-3343 Ancient to Modern Art History
- ARTS-3353 Contemporary Art

##### B. 39 hours interior design

- ARTS-1623 Introduction to Interior Design
- ARTS-1643 Interior Textiles, Materials, and Finishes
- ARTS-1653 Computer Aided Design
- ARTS-2623 Residential Interior Design
- ARTS-2653 Space Planning and Systems Furniture

ARTS-2663 Architectural Graphics

ARTS-3533\*\* Historical Interior Design, Antiquity to 1850

ARTS-3613 Interior Systems

ARTS-3623 Commercial Design I

ARTS-3633\*\* Contemporary Interior Design, 1850 to Present

ARTS-3643 Commercial Design II

ARTS-4613 Interior Design Professional Practices and Portfolio

ARTS-4633 Senior Interior Design Studio

### C. 3 hours Interior Design Internship

ARTS-4823 Interior Design Internship

### 2. 9 hours business chosen from

BUSA-1211 Introduction to Business

BUSA-3713 Contemporary Business Ethics

MGMT-3113 Principles of Management

MGMT-3323 Entrepreneurship and Small Business

Management

MGMT-4313 Organizational Behavior

Special Notes for Art and Design Majors:

1. You must provide your own supplies.
2. \*\*Fulfills 6 hours of core curriculum requirements to replace FINE-2913 and HIST-2923.
3. For each art and design course you take, OC reserves the right to retain one of your works for its permanent collection and to exhibit or reproduce the work in any of its publications.
4. If an M.A. in Art History is anticipated, two courses in French and an additional 9 hours of art history are highly recommended.

## DEPARTMENT OF BIOLOGY

### B.S. Degree in Biochemistry

#### 79 hours, no minor required

Degree requirements

See listing in Chemistry

### B.S. Degree in Biology

#### 69 hours, no minor required

An OC Graduate with a Bachelor of Science degree and in Biology will:

1. Be prepared for graduate level studies or entry-level positions in fields of scientific investigation.
2. Have acquired a fundamental body of knowledge in the biological and physical sciences.
3. Be able to think critically and have conducted research in both experimental and theoretical forms.
4. Be able to communicate effectively the results of scientific research and study.
5. Have developed mature Christian attitudes towards scholarship, intellectual honesty and ethical conduct that promote a life-long appreciation for learning.

#### Degree requirements

##### 1. 16 hours biology core

- BIOL-1214 General Botany
- BIOL-1314 General Zoology
- BIOL-2114 Cellular Biology
- BIOL-2314 Genetics

2. 22 hours 3000/4000 level biology courses; must include 6 lecture and 4 lab courses; up to 4 hours can be satisfied by undergraduate research.
3. 15 hours chemistry
  - CHEM-1115 General Chemistry I
  - CHEM-1215 General Chemistry II
  - CHEM-3115 Organic Chemistry I
4. 6-7 hours mathematics
  - A. 3-4 hours mathematics
    - MATH-1213 College Algebra
    - or
    - MATH-2114 Calculus I with Analytical Geometry
  - B. 3 hours statistics
    - MATH-2913 Statistical Methods
  - C. 3 hours trigonometry recommended, but not required
    - MATH-1523 Trigonometry
5. 4-5 hours physics with laboratory
  - PHYS-1514 College Physics I
  - or
  - PHYS-2513 Physics I
  - PHYS-1811 Physics I Lab
6. 5 hours science seminar
  - GNSC-1711 Freshman Science Seminar
  - GNSC-2711 Sophomore Science Seminar
  - GNSC-3711 Junior Science Seminar
  - GNSC-4712 Senior Science Seminar

Note: Program Requirements:

Before taking any 3000/4000 level biology classes, you must:

1. Complete 16 hours of core biology
2. Maintain a science GPA of 2.5
3. Complete all prerequisite courses with a grade of C or better.
4. Complete GNSC-1711 and GNSC-2711; while enrolled, students must seek approval to add upper division biology courses.
5. Complete ENGL-2113 with a grade of C or better.
6. Obtain departmental approval.

## B.S. Degree in Medical Technology

### 71 hours, no minor required

The major consists of three years of university work plus 12 months of clinical training in a hospital lab school of medical technology accredited by the National Accrediting Agency for Clinical Laboratory Sciences. OC has affiliation agreements with a number of such schools. Acceptance into the clinical program will be determined by the affiliated hospital.

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

1. Be prepared for graduate level studies in Medical Technology or entry-level positions in the field of Medical Technology.
2. Be able to think critically and have acquired a fundamental framework of knowledge in mathematics, chemistry, and life-science applications that will withstand the rapid evolution of modern lab techniques critical in medical practice.
3. Have acquired a fundamental knowledge of clinical practices through intensive clinical training.
4. Have developed a sense of absolute integrity governing lab medicine and mature Christian attitudes towards scholarship, intellectual honesty, and ethical conduct that promote a life-long appreciation for learning.

Degree requirements

Complete 96 hours at OC

1. Meet all core curriculum requirements

2. 42 hours science

A. 19 hours chemistry

1) 15 hours

CHEM-1115 General Chemistry I

CHEM-1215 General Chemistry II

CHEM-3115 Organic Chemistry I

2) 4 hours electives selected from

CHEM-3214 Organic Chemistry II

CHEM-4014 Biochemistry I with Lab

CHEM-4004 Instrumental Analysis

B. 16 hours biology

1) 12 hours

BIOL-3224 Human Physiology

BIOL-3415 General Microbiology

BIOL-4213 Immunology

2) 4 hours electives selected from

BIOL-2114 Cellular Biology

BIOL-2244 Human Anatomy

BIOL-2314 Genetics

BIOL-3524 Invertebrate Zoology and Parasitology

C. 3 hours algebra

MATH-1213 College Algebra

D. 3 hours science seminar

GNSC-1711 Freshman Science Seminar

GNSC-2711 Sophomore Science Seminar

GNSC-3711 Junior Science Seminar

3. Elective hours to total of 96 hours

4. Complete 30 hours clinical training

MEDT-4117 Clinical Microbiology

MEDT-4125 Clinical Chemistry

MEDT-4236 Clinical Hematology

MEDT-4246 Clinical Immunology

MEDT-4325 Clinical Chemistry II

MEDT-4351 Topics in Medical Technology

*Note: Transfer students must complete at least 30 hours (two semesters) at OC to be eligible to enroll in the clinical training courses.*

*During your participation in the clinical year of the medical technology program, your scholarships will be replaced by a med tech scholarship equal to the cost of full-time OC tuition, minus the cost of the medical technology program fee. If you wish to keep your laptop during the clinical year, contact the helpdesk for fees that may be involved.*

## DEPARTMENT OF NURSING

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

1. Exemplify Christian principles of compassion, service, integrity and respect for the well-being of clients, peers and self.
2. Synthesize critical thinking skills for professional nursing practice.
3. Communicate clearly, effectively, and appropriately with clients and other health care providers to promote positive client outcomes.
4. Provide appropriate and safe nursing care (clinically competent) to clients.
5. Demonstrate a leadership style consistent with academic

preparation while adhering to the standards of the nursing profession.

6. Provide nursing care based on knowledge and appreciation of unique cultural variations.

## ADMISSION TO THE NURSING PROGRAM

In addition to meeting the criteria for admission to OC, you must meet the following requirements:

- a minimum GPA of 2.75
- three letters of recommendation
- achievement testing
- federal background check and drug screening
- TOEFL score of 500+ for international students

Students who have been convicted of a crime, other than a minor traffic violation, could be ineligible for admission to the university or for licensure in the state of Oklahoma. Contact the nursing office for further information.

### Transfer Students

Students transferring from other colleges and universities are accepted on a competitive basis. A conference with the Office of the Registrar and the Nursing Department is required. An individual curriculum plan will be developed for transfer students.

See the Nursing Handbook for a complete description of requirements, fees, and information on advanced placement.

## B.S.N. Degree in Nursing 92 hours, no minor required

Degree requirements

1. 20 hours science
  - BIOL-2013 General Biology I
  - BIOL-2033 Nutrition
  - BIOL-2523 Anatomy and Physiology I
  - BIOL-2623 Anatomy and Physiology II
  - BIOL-2624 Principles of Microbiology
  - CHEM-1104 Introduction to Chemistry I
2. 6 hours mathematics
  - MATH-1213 College Algebra
  - MATH-2913 Statistical Methods
3. 6 hours psychology
  - PSYC-1113 General Psychology
  - PSCY-3523 Developmental Psychology
4. 60 hours nursing
  - NURS-1011 Introduction to Nursing
  - NURS-2003 Health Assessment
  - NURS-2013 Fundamentals of Nursing
  - NURS-2033 Pharmacology
  - NURS-3013 Pathophysiology
  - NURS-3014 Mental Health Nursing
  - NURS-3015 Adult Nursing I
  - NURS-3024 Maternal-Infant Nursing
  - NURS-3025 Adult Nursing II
  - NURS-3034 Health Care Missions and Christian Service
  - NURS-4005 Community Health Nursing
  - NURS-4011 Capstone in Nursing
  - NURS-4015 Child and Family Health Nursing
  - NURS-4022 Issues and Trends in Nursing
  - NURS-4024 Leadership and Management in Nursing

NURS-4025 Adult Nursing III  
NURS-4033 Nursing Research

\*\*After admittance into the nursing program, a student must maintain a cumulative 2.75 GPA and a 2.75 major GPA. For more information refer to the Nursing Student Handbook on Nursing Central.

Graduation with a BSN in Nursing does not guarantee licensure. Students must pass the NCLEX-RN to earn license.

## B.S.E. Degree in Science Education 42-43 hours, minor required

The requirements for a minor in professional education must also be met.

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

1. Have acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the Oklahoma General Education Test (OGET).
2. Demonstrate an in-depth knowledge of their chosen area of science by achieving a 3.00 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.

Degree requirements

1. 20 hours core science courses
    - BIOL-2013 General Biology I
    - CHEM-1115 Chemistry I
    - CHEM-1215 Chemistry II
    - GNSC-2313 Physical Science I: The Earth
    - GNSC-4721 Science Modeling and Strategies
    - MATH-2913 Statistical Methods
  2. 23 hours biology emphasis or 22 hours physical science emphasis
    - A. Biology Emphasis
      - BIOL-2023 Biology II
      - BIOL-2314 Genetics
      - BIOL-2523 Anatomy & Physiology I
      - BIOL-2624 Principles of Microbiology
      - PHYS-1514 College Physics I
      - PHYS-1811 Physics I Lab
      - 4 hours upper division biology
    - or
    - B. Physical Science Emphasis
      - CHEM-3115 Organic Chemistry I
      - GNSC-2323 Physical Science II: Astronomy
      - PHYS-1514 College Physics I
      - PHYS-1614 College Physics II
      - PHYS-1811 Physics I Lab
      - PHYS-1911 Physics II Lab
      - 4 hours upper division chemistry or physics
- The student must meet all the requirements for the B.S.E. Degree as well as education professional hours (see page 79).

## Pre-Professional Programs

Pre-medical, pre-dentistry and other programs:

There are many professional programs in the health sciences available to students, requiring a variety of preparations for



admittance. Students wanting to become physicians (M.D. or D.O.), dentists, optometrists, podiatrists, or pharmacists usually need to complete a B.S. degree before being accepted into the post-graduate programs.

Because requirements at different professional schools vary, you should decide at which schools you plan to seek admission and work closely with your faculty advisor to make certain that all entrance requirements are met. OC has an excellent record of acceptances into a number of professional schools.

Physical therapy (P.T.) and occupational therapy (O.T.) programs are typically master's or doctorate degree programs. Although the requirements for admission are diverse, OC offers the prerequisites for these programs. You should check with the institution offering a P.T. or O.T. program to determine the specific prerequisites. Because of the competition for entry into P.T. and O.T. programs, many students will have to complete a bachelor's degree in biology or psychology while fulfilling the specific prerequisites for entry into the P.T. or O.T. program.

For students desiring to gain admission to the P.T. or O.T. programs at the University of Oklahoma Health Sciences Center, a BS degree must be completed.

### Allied health science areas

There are also many other allied health science fields such as physician associate, medical technology, radiation technology, dental hygiene, cytotechnology, environmental health, and industrial hygiene. These programs require from two to four years of undergraduate education before acceptance into the professional program. OC offers the necessary pre-professional education for these programs. Faculty advisors will work with you to plan an acceptable program.

## DEPARTMENT OF CHEMISTRY AND PHYSICS

The Department of Chemistry and Physics considers its primary constituents to be four-fold:

1. Students seeking an education in science at a Christian university.
2. The scientific community in which these students will eventually work.
3. The church they will serve.
4. Their parents.

### B.S. Degree in Biochemistry 79-81 hours, no minor required

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

1. Be prepared for graduate level studies or entry-level positions in fields of scientific investigation.
2. Have acquired a fundamental body of knowledge in the biological and chemical sciences.
3. Be able to think critically and have conducted research in both experimental and theoretical forms.
4. Be able to communicate effectively the results of scientific research and study.
5. Have developed mature Christian attitudes towards scholarship, intellectual honesty and ethical conduct that promote a life-long appreciation for learning.

### Degree Requirements

1. 7 hours mathematics  
MATH-2114 Calculus I with Analytical Geometry  
MATH-2913 Statistical Methods
2. 8-10 hours physics with laboratory  
PHYS-1514 College Physics I  
or  
PHYS-2513 Physics I  
PHYS-1614 College Physics II  
or  
PHYS-2613 Physics II  
PHYS-1811 Physics Lab I  
PHYS-1911 Physics Lab II
3. 20 hours biology/biochemistry  
BIOL-2114 Cellular Biology  
BIOL-3415 General Microbiology  
BIOL-4014 Biochemistry I and Lab  
BIOL-4123 Biochemistry II  
BIOL-4223 Molecular Biology  
BIOL-4301 Molecular Biology Lab
4. 27 hours chemistry  
CHEM-1115 General Chemistry I  
CHEM-1215 General Chemistry II  
CHEM-3114 Analytical Chemistry I  
CHEM-3115 Organic Chemistry I  
CHEM-3124 Organic Chemistry II  
CHEM-4113 Physical Chemistry I  
CHEM-4121 Physical Chemistry Experiments I
5. 5 hours science seminar  
GNSC-1711 Freshman Science Seminar  
GNSC-2711 Sophomore Science Seminar  
GNSC-3711 Junior Science Seminar  
GNSC-4712 Senior Science Seminar
6. 12 hours technical electives chosen from  
BIOL-1314 General Zoology  
BIOL-2314 Genetics  
BIOL-2244 Human Anatomy  
or  
BIOL-3115 Human Anatomy with Cadaver Dissection  
BIOL-3224 Human Physiology  
BIOL-3435 Pathogenic Microbiology  
BIOL-4213 Immunology  
BIOL-4411 Introduction to Research  
BIOL-4412 Undergraduate Research  
CHEM-2113 Introduction to Forensic Science  
CHEM-3214 Analytical Chemistry II  
CHEM-4213 Physical Chemistry II  
CHEM-4313 Forensic Toxicology  
CHEM-4221 Physical Chemistry Experiments II  
CHEM-4414 Inorganic Chemistry  
CHEM-4514 Forensic Analysis  
CHEM-4611 Research Methods  
CHEM-4612 Research Methods  
CHEM-4613 Research Methods  
CHEM-4711 Practicum in Forensic Science  
CHEM-4712 Practicum in Forensic Science  
CHEM-4713 Practicum in Forensic Science  
ENGL-3493 Technical Writing  
MATH-2214 Calculus II with Analytical Geometry

#### Recommendation

- Medical School Track — Take General Zoology, Human Anatomy, and Human Physiology.
  - Graduate School/Industry Track — Take Calculus II, Physical Chemistry II plus Lab, and Technical Writing.
  - Forensics Track — Include Introduction to Forensic Science, Forensic Toxicology, Forensic Analysis, Practicum in Forensic Science, Human Anatomy with Cadaver Dissection.
- No more than 3 hours of Practicum in Forensic Science courses may be counted toward the biochemistry major.

### **B.S. Degree in Chemistry** **78 hours, no minor required**

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

- Be able to think critically, with special emphasis on application to his or her scientific field. The department will provide a solid foundation of technical knowledge and essential methodologies for learning and practice that will permit these graduates to be productive and successful in graduate school, professional school, or industry.
- Serve in the Christian community in all areas of life. Graduates will have internalized a personal faith in God exhibited by:
  - Ethical decision making in the workplace;
  - An exemplary work ethic and lifestyle consistent with a Christian worldview; and
  - A stable life that successfully balances career, family, church, and community.
- Communicate effectively with the tools of the information age. Graduates will have been exposed to both written and oral scientific communication, and will have had the opportunity to both write and present scientific work. Where possible, students will have been involved in undergraduate research and will make presentations of their own research.

#### Degree Requirements

- 12 hours mathematics
  - MATH-2114 Calculus I with Analytical Geometry
  - MATH-2214 Calculus II with Analytical Geometry
  - MATH-2314 Calculus III
- 11 hours physics and laboratory
  - PHYS-2513 Physics I
  - PHYS-1811 Physics Lab I
  - PHYS-2613 Physics II
  - PHYS-1911 Physics Lab II
  - PHYS-2713 Physics III
- 43 hours chemistry
  - CHEM-1115 General Chemistry I
  - CHEM-1215 General Chemistry II
  - CHEM-3114 Analytical Chemistry I
  - CHEM-3115 Organic Chemistry I
  - CHEM-3124 Organic Chemistry II
  - CHEM-3214 Analytical Chemistry II
  - CHEM-4014 Biochemistry I and Lab
  - CHEM-4113 Physical Chemistry I
  - CHEM-4121 Physical Chemistry Experiments I
  - CHEM-4213 Physical Chemistry II
  - CHEM-4221 Physical Chemistry Experiments II
  - CHEM-4414 Inorganic Chemistry

- 7 hours technical electives chosen from
  - CHEM-4123 Biochemistry II
  - CHEM-4313 Forensic Toxicology
  - CHEM-4514 Forensic Analysis
  - CHEM-4611 Research Methods
  - CHEM-4612 Research Methods
  - CHEM-4613 Research Methods
  - CHEM-4711 Practicum in Forensic Science
  - CHEM-4712 Practicum in Forensic Science
  - CHEM-4713 Practicum in Forensic Science

No more than 3 hours of Practicum in Forensic Science courses may be counted toward the chemistry major.

Students planning to pursue graduate work in chemistry can include MATH-3013-Differential Equations and one computer science course (CMSC-1113-Programming I, CMSC-1123-Programming II, or CMSC-2133-Object Oriented Programming).

- 5 hours science seminar
  - GNSC-1711 Freshman Science Seminar
  - GNSC-2711 Sophomore Science Seminar
  - GNSC-3711 Junior Science Seminar
  - GNSC-4712 Senior Science Seminar

### **B.S. Degree in Forensic Science** **79 hours, no minor required**

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

- Be prepared for graduate level studies in forensic science or entry-level positions in a forensic science laboratory.
- Have acquired fundamental knowledge in the biological and chemical sciences with specific knowledge in forensic science.
- Be able to think critically and conduct research experimentally and theoretically.
- Be able to communicate effectively orally and in writing the results of scientific research and study.
- Have developed mature Christian attitudes that will foster scholarship, intellectual honesty, and ethical conduct; having a good grasp of the concepts of justice and mercy.

#### Degree Requirements

- 7 hours mathematics
  - MATH-2114 Calculus I
  - MATH-2913 Statistical Methods
- 8 hours physics with laboratory
  - PHYS-2513 Physics I
  - PHYS-1811 Physics Lab I
  - PHYS-2613 Physics II
  - PHYS-1911 Physics Lab II
- 4 hours biology with laboratory
  - BIOL-2114 Cellular Biology
- 31 hours chemistry
  - CHEM-1115 General Chemistry I
  - CHEM-1215 General Chemistry II
  - CHEM-3115 Organic Chemistry I
  - CHEM-3124 Organic Chemistry II
  - CHEM-3114 Analytical Chemistry I
  - CHEM-3214 Analytical Chemistry II
  - CHEM-4014 Biochemistry I and Lab
- 16 hours forensic science
  - CHEM-2113 Introduction to Forensic Science
  - GNSC-3113 Forensic Science and the Law

- CHEM-4313 Forensic Toxicology
- CHEM-4514 Forensic Analysis
- CHEM-4713 Practicum in Forensic Science
- 6. 5 hours of science seminar
  - GNSC-1711 Freshman Science Seminar
  - GNSC-2711 Sophomore Science Seminar
  - GNSC-3711 Junior Science Seminar
  - GNSC-4712 Senior Science Seminar
- 7. 8 hours technical electives chosen from
  - BIOL-2314 Genetics
  - BIOL-3115 Human Anatomy with Cadaver Dissection
  - BIOL-3224 Human Physiology
  - BIOL-3435 Pathogenic Microbiology
  - BIOL-4223 Molecular Biology
  - BIOL-4301 Molecular Biology Lab
  - CHEM-4613 Research Methods
  - MATH-2214 Calculus II with Analytical Geometry
  - PSYC-3313 Abnormal Psychology
  - PSYC-3913 Psychology of Crime
  - PSYC-4413 Biological Psychology
  - PSYC-4423 Drugs and Psychopharmacology

Technical electives should be chosen based upon degree track. BIOL-3115, 3224, and/or 3435 are recommended for toxicology-related career/graduate school. DNA-related career/graduate school requires BIOL-2314, 4223, and 4301. Graduate studies in psychological forensic science recommend PSYC-3313, 3913, 4413, and 4423. MATH-2214 and CHEM-4613 are recommended for any graduate school preparation in forensic chemistry.

### **B.S.E. Degree in Science Education** **Degree requirements**

See Listing in Biology

## **DEPARTMENT OF COMMUNICATION**

### **B.A. Degree in Communication Studies** **37 hours, minor required**

The student must complete a minimum of 37 hours, 12 hours of which must be in 3000/4000 level courses.

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

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance successfully career, family, church and community.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals of research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able to pursue successfully a graduate degree in communication.

#### **Degree requirements**

1. 13 hours communication core courses
  - COMM-2513 Communication Theory
  - COMM-4113 Persuasion

- COMM-4631 Senior Seminar in Communication
- COMM-4733 Communication Ethics
- 3 hours experience appropriate to emphasis.
- 2. 24 hours required in area of emphasis (choose one area)
  - A. General
    - COMM-3333 Group Communication
    - COMM-3353 Interpersonal Communication
    - 18 hours selected from communication courses except 1213

#### **B. Pre-Law**

- COMM-3333 Group Communication
- COMM-3353 Interpersonal Communication
- COMM-3123 Oral Interpretation
- COMM-3723 Interviewing
- COMM-4113 Persuasion
- COMM-4713 Media Law
- 3 hours Constitutional or Business Law
- 3 hours Political Science elective

Two courses in the same foreign language (minimum total — 6 hours)

*Note: A minor in psychology, English, history, or political science and a course in statistics can be helpful for those planning for graduate school.*

### **B.S. Degree in Mass Communication** **Electronic Media-Media Management** **56 hours, no minor required**

An OC graduate with a Bachelor of Science degree in Mass Communication Electronic Media-Broadcast Management will:

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to successfully balance career, family, church, and community.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals of research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able successfully to pursue a career as a media salesperson or on-air radio personality possessing the talents to advance beyond an entry-level of employment.

#### **Degree requirements**

1. 15 hours mass communication core courses
  - COMM-2613 Media and Society
  - COMM-4631 Senior Seminar in Communication
  - COMM-4713 Media Law
  - COMM-4723 Media Ethics

Five hours experience-

You must take COMM-1371 or COMM-1381 each semester after completing COMM-1211. After satisfying the major requirement, additional workshop hours will count toward the 126 hours required for the degree. Internships may be substituted for two of these hours.

2. 35 hours media management required

- COMM-1211 Introduction to Electronic Media
- COMM-1381 Advanced Broadcasting Workshop
- COMM-2113 Media Writing
- COMM-2213 Voice and Articulation

- COMM-2643 Media Production
- COMM-2813 Advertising Principles
- COMM-3343 Advertising Copywriting
- COMM-3633 Audio for Media
- COMM-3653 Television Field Production
- COMM-3723 Interviewing and Listening
- COMM-3733 Media Marketing and Sales
- COMM-4123 Electronic News Producing
- COMM-4513 Administrative Aspects of Electronic Media

3. 3 hours business required

- MGMT-3113 Principles of Management

4. 3 hours business elective

### **B.S. Degree in Mass Communication Electronic Media-Creative Media**

**56 hours, no minor required**

An OC graduate with a Bachelor of Science degree in Mass Communication Electronic Media-Creative Media (Content Creation) will:

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

Degree requirements

1. 15 hours mass communication core courses
  - COMM-2613 Media and Society
  - COMM-4631 Senior Seminar in Communication
  - COMM-4713 Media Law
  - COMM-4723 Media Ethics

Five hours experience-

You must take COMM-1371 or COMM-1381 each semester after completing COMM-1211. After satisfying the major requirement, additional workshop hours will count toward the 126 hours required for the degree. Internships may be substituted for two of these hours.

2. 38 hours creative media required

- ARTS-2243 Interactive Media Design
- COMM-1211 Introduction to Electronic Media
- COMM-1381 Advanced Broadcasting Workshop
- COMM-2643 Media Production
- COMM-2723 Scriptwriting
- COMM-3343 Advertising Copywriting
- COMM-3633 Audio for Media
- COMM-3653 Television Field Production
- COMM-3703 Computer Graphics for Broadcast
- COMM-3723 Interviewing
- COMM-3733 Media Marketing and Sales
- COMM-4123 Electronic News Producing
- COMM-4513 Administrative Aspects of Electronic Media
- COMM-4913 Directed Study: Advanced Production

3. 3 hours art required

- ARTS-1103 Technology for Graphics

### **B.S. Degree in Mass Communication Electronic Media-Interactive Media**

**56 hours, no minor required**

An OC graduate with a Bachelor of Science degree in Mass Communication Electronic Media-Interactive Media will:

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance successfully career, family, church and community.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals or research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able successfully to pursue a career in broadcast graphics or broadcast design or in other motion graphic careers.

Degree requirements

1. 15 hours mass communication core courses
  - COMM-2613 Media and Society
  - COMM-4631 Senior Seminar in Communication
  - COMM-4713 Media Law
  - COMM-4723 Media Ethics

Five hours experience-

You must take COMM-1371 or COMM-1381 each semester after completing COMM-1211. After satisfying the major requirement, additional workshop hours will count toward the 126 hours required for the degree. Internships may be substituted for two of these hours.

2. 29 hours interactive media courses required

- COMM-1211 Introduction to Electronic Media
- COMM-2643 Media Production
- COMM-2723 Scriptwriting
- COMM-3633 Audio for Media
- COMM-3653 Television Field Production
- COMM-3703 Computer Graphics for Broadcast
- COMM-3723 Interviewing
- COMM-3733 Media Marketing and Sales
- COMM-4101 Interactive Media Workshop
- COMM-4513 Administrative Aspects of Electronic Media
- COMM-4813 Producing the News

3. 12 hours arts required

- ARTS-1103 Technology for Graphics
- ARTS-2243 Interactive Media Design I
- ARTS-3153 3D Modeling and Animation I
- ARTS-4223 Gaming and Animation

### **B.S. Degree in Mass Communication-Public Relations** **60 hours, no minor required**

An OC graduate with a Bachelor of Science degree in Mass Communication-Public Relations will:

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance successfully career, family, church and community.



3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals or research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be able successfully to pursue a master's degree in business or public relations, or to pursue a career in public relations, corporate communications or a communications-related profession in an agency, firm, corporation, non-profit, sports franchise, or other organizational environment.

#### Degree requirements

1. 10 hours mass communication core courses  
 COMM-2613 Media and Society  
 COMM-4631 Senior Seminar in Communication  
 COMM-4713 Media Law  
 COMM-4723 Media Ethics

Five hours experience: You must choose from

COMM-1211, 1341, 1351, 1371, or 1381.

An internship may be substituted for one of these hours.

2. 36 hours public relations required  
 COMM-2113 Media Writing  
 COMM-2413 Photographic Principles and Practices  
 COMM-2643 Media Production  
 COMM-2813 Advertising Principles  
 COMM-2823 Public Relation Principles  
 COMM-2833 Reporting  
 COMM-3113 Business and Professional Communication  
 COMM-3343 Advertising Copywriting  
 COMM-3543 Public Relation Case Studies  
 COMM-3723 Interviewing  
 COMM-3733 Media Marketing and Sales  
 COMM-3743 Public Relation Methods
3. 9 hours chosen from  
 MGMT-3113 Principles of Management  
 MKTG-3313 Principles of Marketing  
 MKTG-3513 E-Commerce and Online Marketing  
 MKTG-4413 Consumer Behavior  
 MKTG-4513 Marketing Research

#### **B.S. Degree Journalism**

##### **39 hours, minor required**

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to successfully balance career, family, church and community.
3. Be familiar with appropriate theories of mass communication.
4. Have developed the appropriate writing styles and skills expected by future employers.
5. Have an understanding of the fundamentals of research and be able to interpret research findings.
6. Understand the ethics of communication.
7. Be successfully able to pursue a career in the converged world of journalism as a reporter, producer, or editor characterized by the ability to acquire, process, and distribute newsworthy stories in formats appropriate for print, broadcast or web and within the US legal and regulatory framework.

#### Degree requirements

1. 15 hours mass communication core courses  
 COMM-2613 Media and Society  
 COMM-4631 Senior Seminar in Communication  
 COMM-4713 Media Law  
 COMM-4723 Media Ethics

Five hours of experience-Select news workshops based on interest: broadcast or print. An internship may substitute for one of these hours.

2. 15 hours journalism core courses  
 COMM-2113 Media Writing  
 COMM 2643 Media Production  
 COMM-2833 Reporting  
 COMM-3453 Electronic News Writing  
 COMM-3723 Interviewing
3. 3 hours journalism required  
 COMM-3823 Feature Writing  
 or  
 COMM-4123 Electronic News Producing
- 4.3 hours chosen from  
 COMM-2413 Photographic Principles and Practices  
 COMM-2213 Voice and Articulation
5. 3 hours chosen from either  
 A. Advanced Production  
 COMM-3653 TV Field Production  
 B. Advanced Writing-chosen from  
 ENGL-3493 Technical Writing  
 ENGL-3523 Creative Writing I  
 ENGL-3533 Creative Writing II  
 ENGL-3813 Individualized Writing

A minor must be chosen from one of the following specialty areas

- A. Accounting
- B. Business
- C. Education
- D. Information science
- E. Media Production-for all wanting a broadcast emphasis
- F. Physical science
- G. Political science

#### **B.S. Degree in Organizational Communication**

##### **47 hours, no minor required**

This degree is designed to be a concentrated study of the role of communication in a wide variety of organizations, including businesses, churches, and voluntary agencies. Courses are designed to educate the student to help organizations meet their goals and objectives through improved communication.

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

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community.
2. Have been encouraged to balance successfully career, family, church and community.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals or research and be able to interpret research findings.
6. Understand the ethics of communication.

7. Be able successfully to pursue a master's degree in business or communication, or to pursue a career in a communication-related profession in a firm, corporation, non-profit, or other organizational environment.

#### Degree requirements

1. 13 hours communication core courses
  - COMM-2513 Communication Theory
  - COMM-4113 Persuasion
  - COMM-4631 Senior Seminar in Communication
  - COMM-4733 Communication Ethics
  - 3 hours experience appropriate to major.
2. 24 hours organizational communication
  - COMM-2113 Media Writing
  - COMM-2643 Media Production
  - COMM-2823 Public Relations Principles
  - COMM-3113 Business and Professional Communication
  - COMM-3323 Organizational Communication
  - COMM-3333 Group Communication
  - COMM-3343 Advertising Copywriting
  - COMM-3723 Interviewing
3. 7 hours business required
  - BUSA-1211 Introduction to Business
  - MGMT-3113 Principles of Management
  - MGMT-4313 Organizational Behavior
4. 3 hours mathematics required
  - MATH-2913 Statistical Methods

or  
Three hours of other statistics

\*In the core curriculum, the student must take PSYC-1113-General Psychology, a prerequisite for MGMT-4313-Organizational Behavior to fulfill the Behavioral Science requirement and MATH-1213-College Algebra to fulfill the mathematics requirement.

### **B.S. Degree in Theater Performance**

#### **43 hours, minor required**

This degree prepares the student for graduate studies in theater by providing education in performance, dramatic literature, theater history, movement, design, and directing. Those interested in teaching drama may pursue teaching certification at the graduate level after completing the undergraduate theater performance degree.

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

1. Have been encouraged to sustain or adopt a Christian worldview characterized by participation in a Christian community. Have been encouraged to balance successfully career, family, church and community.
3. Be familiar with the appropriate theories of communication.
4. Have developed the appropriate writing styles and skills expected by future employers or graduate programs.
5. Have an understanding of the fundamentals or research and be able to interpret research findings.
6. Understand the ethics of communication.
7. The student will be able to pursue successfully graduate studies in theater performance or theater education.

#### Degree requirements

1. 13 hours communication core
    - COMM-2513 Communication Theory
    - COMM-3123 Oral Interpretation
    - COMM-4631 Senior Seminar in Communication
    - COMM-4733 Communication Ethics
    - 3 hours experience appropriate to emphasis
  2. 21 hours theater performance required
    - COMM-1411 Introduction to Play Production
    - COMM-1412 Movement and Choreography for the Stage
    - COMM-2213 Voice and Articulation
    - COMM-2223 Stagecraft for Theater and Television
    - COMM-2313 Acting I
    - COMM-3133 Costume and Makeup
    - COMM-3203 Acting Styles
    - COMM-3213 Stage Directing
  3. 3 hours chosen from
    - COMM-2023 History of the Theater
    - COMM-2023 History of the Theater II
  4. 3 hours chosen from
    - COMM-4103 Modern Drama
    - ENGL-4103 Studies in Shakespeare
  5. 3 hours chosen from
    - COMM-3223 Theater Design
    - COMM-4213 Performance Conventions: Religious Drama
    - COMM-4223 Performance Conventions: Experimental Theater
- Two courses in the same foreign language are recommended.

## DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

### HISTORY

#### **B.A. Degree in History**

#### **39 hours, minor required**

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

1. Demonstrate an understanding of the nature of history and knowledge of basic research techniques, the use of documents and the handling of evidence, as part of a Christian worldview.
2. Demonstrate analytical and critical thinking through effective communication of independent research.
3. Demonstrate knowledge of the fundamentals of American, European, and public history.
4. Be able to apply Christian ethics to life situations, as a leader in the home, community and church.
5. Have an increased understanding of people of different cultures, times and places.

#### Degree requirements

1. 6 hours Western Civilization
  - HIST-2923 Perspectives in Western Civilization
  - and
  - any European history course
2. 6 hours American history
  - HIST-2213 History of the U.S. to 1877
  - HIST-2223 History of the U.S. since 1877
3. 6 hours research courses; both must be passed with a grade of C or better.
  - HIST-2123 Introduction to Historical Research
  - HIST-4733 Senior History Seminar

4. 3 hours public history  
HIST 2723 Introduction to Public History
5. A minimum of 15 hours 3000/4000 level courses
6. 3 hours history electives  
Two courses in the same foreign language  
(minimum total — 6 hours)

### **B.A. Degree in History/Pre-Law**

#### **60 hours, no minor required**

The B.A. in History/Pre-Law has the same requirements as the B.S. in History/Pre-Law (below), but the B.A. requires two courses in the same foreign language (minimum total — 6 hours).

### **B.S. Degree in History/Pre-Law**

#### **60 hours, no minor required**

The B.S. in History/Pre-Law combines work in history, political science, economics, and literature to prepare the student for a variety of career opportunities and graduate studies. This degree is designed as preparation for careers in public administration, civil service, or foreign service, typically after taking an appropriate graduate degree. It also provides a good background for graduate work in the areas studied and is an excellent preparation for law school.

An OC graduate with a Bachelor of Science degree in History/Pre-Law will:

1. Be familiar with law school pedagogy and course work.
2. Demonstrate an understanding of the nature of history and knowledge of basic research techniques, the use of documents, and the handling of evidence, as part of a Christian worldview.
3. Demonstrate analytical and critical thinking through effective communication of independent research.
4. Demonstrate knowledge of the fundamentals of American and European history.
5. Be able to apply Christian ethics to life situations, as a leader in the home, community, and church.

#### **Degree requirements**

1. 36 hours history
  - A. 6 hours Western Civilization  
HIST-2923 Perspectives in Western Civilization and  
any European history course
  - B. 6 hours American history  
HIST-2213 History of the U.S. to 1877  
HIST-2223 History of the U.S. since 1877
- C. 6 hours research courses; both must be passed with a grade of C or better.  
HIST-2123 Introduction to Historical Research  
HIST-4733 Senior History Seminar
- D. A minimum of 15 hours 3000/4000 level courses. It is recommended that these include both American and European history courses.
- E. 3 hours history electives/2000 level or higher
2. 6 hours business chosen from  
ACCT-2113 Accounting Principles I  
BUSA-4213 Business Law  
ECON-2113 Macroeconomics  
ECON-2213 Microeconomics

Students choosing one of the economics classes will be exempt from POLS-1213, American Political Economy, a core curriculum requirement.

#### **3. 18 hours Option A or Option B.**

##### **Option A**

- A. 9 hours political science  
POLS-2113 Introduction to American Politics  
POLS-3313 Legal and Legislative Analysis  
POLS-4113 Constitutional Law
- B. 3 hours political science chosen from  
POLS-3413 The Presidency and Congress  
POLS-3613 Political Parties and Interest Groups  
POLS-3713 State and Local Politics

##### **C. 6 hours political science electives 2000 level or higher Option B**

- A. 9 hours political science  
POLS-2113 Introduction to American Politics  
POLS-3313 Legal and Legislative Analysis  
POLS-4113 Constitutional Law
- B. 9 hours literature in courses above  
ENGL-2213

## **POLITICAL SCIENCE**

### **B.S. Degree in Political Science**

#### **45 hours, minor required**

The degree provides an academic program for those students interested in learning about the institutions, laws, and public policies of local, national, and global governance. It encompasses a broad theoretical and substantive survey of governance institutions, laws and public policies. Students will be prepared for entry-level public service careers, law school, and many graduate programs in public policy, political science, public administration, and political management.

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

1. Be familiar with law school pedagogy and course work.
2. Demonstrate analytical and critical thinking through effective written and oral communication.
3. Be able to apply Christian ethics to life situations, as a leader in the home, community and church.
4. Demonstrate an understanding of the nature of political science and knowledge of basic social science research techniques, as part of Christian worldview.

#### **Degree requirements**

1. 15 hours survey courses  
POLS-2113 Introduction to American Politics  
POLS-2213 Introduction to Global Politics  
POLS-2313 Research Skills in Political Science  
(Must be passed with a grade of C or better.)  
POLS-2413 Comparative Politics  
ECON-2113 Macroeconomics  
Note: Majors are exempt from the POLS-1213 core curriculum requirement after completing ECON-2113.
2. 3 hours legal studies  
POLS-3313 Legal and Legislative Analysis  
or  
POLS-4113 Constitutional Law

- 3. 9 hours 3000/4000 level global or comparative politics
- 4. 9 hours 3000-4000 level American politics
- 5. 3 hours intensive research  
     POLS-4713 Political Science Seminar  
     (Must be passed with a grade of C or better.)
- 6. 6 hours of elective political science excluding POLS-1213. May include an internship.

## SOCIAL STUDIES EDUCATION

### **B.S.E. Degree in Social Studies**

#### **45 hours, minor required**

This degree is designed as preparation for those who plan to obtain a certificate to teach social studies in grades 9-12. The state of Oklahoma requires teacher education to be competency based; thus, this degree aims at providing students with the knowledge and skills to achieve competency in the various social studies. The program requires a minimum total of 45 hours distributed among all of the following fields: American history, world history, historical research, Oklahoma history, government, sociology, economics, and geography. Historical research is not a teaching area, but 6 hours are required for the degree. The student must meet all of the requirements for the B.S.E. as well as secondary education professional hours (see page 121).

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

1. Have a broad knowledge of the fundamentals of the social studies, including American and world history, political science, economics, sociology and geography.
2. Demonstrate an understanding of the nature of history and knowledge of basic research techniques, the use of documents and the handling of evidence, as part of a Christian worldview.
3. Demonstrate analytical and critical thinking through effective communication of independent research.
4. Understand and employ principles of effective teaching.
5. See teaching as an opportunity for Christian service as well as a vocation.

#### Degree requirements

1. 12 hours American history
  - A. 6 hours required
    - HIST-2213 History of the U.S. to 1877
    - HIST-2223 History of the U.S. since 1877
  - B. 6 hours 3000/4000 level American history courses
    - HIST-4013 American Revolutionary and Early National Eras is highly recommended
2. 9 hours world history
  - A. 3 hours required
    - HIST-2923 Perspectives in Western Civilization
  - B. 6 hours other world history, of which 3 hours must be 3000/4000 level courses; a course in African or Asian history is highly recommended.
3. 6 hours historical research; both must be passed with a grade of C or better.
  - HIST-2123 Introduction to Historical Research
  - HIST-4733 Senior History Seminar

4. 6 hours geography chosen from
    - GEOG-2113 Elements of Human Geography  
or
    - GEOG-2313 Physical Geography  
and
    - GEOG-2213 World Political Geography
  5. 3 hours economics
    - ECON-2113 Macroeconomic Principles
  6. 3 hours American government POLS-2113  
 Introduction to American Politics
  7. 3 hours sociology
    - SOCI-1113 Perspectives in Sociology
  8. 3 hours Oklahoma history
    - HIST-2313 Oklahoma History
- Fulfillment of foreign language competency is required of all social studies education majors.

Also, students should choose Physical Science (Option I) to meet their science requirement in the core.

## INTERDISCIPLINARY STUDIES

This degree program is designed for the highly motivated student who is seeking insight in several areas of knowledge rather than a deep insight into only one. An interdisciplinary curriculum, including such areas as the social, religious, political, and scientific, will aid the student in understanding contemporary American culture and his or her place in it. This degree program also serves the student who wishes to craft a program of studies from existing courses and majors in order to lay a foundation for a specific career or professional goal not addressed by other OC majors. For example, a student interested in operating a music production studio may propose an academic plan combining courses from the business, music, and communication departments.

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

### **B.A. Degree in Interdisciplinary Studies**

#### **60 hours, no minor required**

#### Degree requirements

1. 60 hours, 39 of which must be 3000/4000 level courses
2. Courses are to be divided among three areas, at least one of which must be in the humanities (such as art, Bible, history, literature, music, or speech). Minimum 9 hours of 3000/4000 level classes in each area.
3. A student must declare a major in Interdisciplinary studies before reaching 96 hours.
4. 2 courses in the same foreign language, minimum total 6 hours.

### **B.S. Degree in Interdisciplinary Studies**

#### **60 hours, no minor required**

The B.S. in Interdisciplinary Studies has the same requirements as the B.A. in Interdisciplinary Studies (above), but the B.S. does not require a foreign language.



## DEPARTMENT OF LANGUAGE AND LITERATURE

### ENGLISH

#### **B.A. Degree in English** **42 hours, minor required**

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

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

1. Critical thinking skills.
2. Clear, correct, and effective communication in English.
3. Comprehension, interpretation, and evaluation of texts, including critical works and works of British, American, and World Literature in their cultural and historical context, with the use of various theoretical methodologies.
4. Basic skills in a foreign language.
5. Exploration of and contribution to the world of ideas.
6. Articulation of and engagement in the personal integration of faith and learning.

#### Degree requirements

1. 30 hours required English
  - A. 6 hours foundation courses
    - ENGL-3013 Literary Criticism
    - ENGL-4213 Studies in Shakespeare
  - B. 9 hours English literature
    - ENGL-3153 English Literature Survey I, 680-1600
    - ENGL-3253 English Literature Survey II, 1600-1780
    - ENGL-3353 English Literature Survey III, 1780-Present
  - C. 9 hours American literature
    - ENGL-3673 American Literature Survey I, Before 1865
    - ENGL-3773 American Literature Survey II, 1865-1914
    - ENGL-3873 American Literature Survey III, 1914-Present
  - D. 6 hours world literature
    - ENGL-3123 World Literature, Classical to Renaissance
    - ENGL-3133 World Literature Renaissance to Modern
2. 9 hours English electives -3000-level or above
3. 3 hours Senior Seminar
  - ENGL-4733 Senior CapstoneTwo courses in the same foreign language  
(minimum total — 6 hours)

#### **Pre-Law Emphasis**

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

#### **Pre-Certification Emphasis**

The course requirements for the emphasis in English Pre-Certification for Secondary Teaching are the same as for the regular B.A. in English. However, students should consult with their advisors to determine which courses and minor will best prepare them for graduate school in Education or alternative certification.

#### **B.A. Degree in English/Teaching English as a Foreign Language (TEFL)**

##### **42 hours, minor required**

The B.A. Degree in English/TEFL is designed for students with an interest in teaching English as a foreign language either abroad or domestically. It also serves as preparation for graduate study in ESL.

An OC graduate with a Bachelor of Arts degree in English/Teaching English as a Foreign Language will:

1. Demonstrate competence in teaching English as a foreign language either abroad or domestically.
2. Demonstrate comprehension of linguistics, grammar, intercultural communication, language learning theory, and teaching methodology.
3. Demonstrate the ability to think, read, and write critically, especially on issues related to language, learning, and teaching.
4. Demonstrate an awareness of and appreciation for the diversities among people around the world.
5. Engage in and articulate a personal integration of faith and learning.

#### Degree requirements

1. 15 hours specialized TEFL
  - ENGL-3313 Introduction to Linguistics
  - ENGL-3713 Structure of the English Language
  - ENGL-4713 Methods of TEFL
  - ENGL-4633 Intercultural Communication I
  - ENGL-4863 TEFL Student Teaching Practicum
2. 21 hours in other English and related courses
  - A. 9-12 hours literature taught in English
  - B. 3 hours literary criticism
    - ENGL-3013 Literary Criticism
  - C. 3 hours Senior Seminar
    - ENGL-4733 Senior Seminar
  - D. 6-9 hours chosen from the following
    - ENGL-1331 TEFL Experience
    - ENGL-3493 Technical Writing
    - GEOG-2113 Elements of Human Geography
    - GEOG-2213 World Political Geography
    - HIST-2513 English History to 1603
    - HIST-2523 English History Since 1603
    - HIST-2923 Perspectives in Western Civilization
    - or
    - HIST-3133 Latin American People
    - or
    - HIST-3143 Civilizations of the Pacific Rim
    - SOCI-3513 World Religions
    - SOCI-3613 Cultural Anthropology
3. Two courses in the same foreign language  
(minimum total — 6 hours)

#### **B.A. Degree in English/Writing** **42 hours, minor required**

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

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

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

#### Degree requirements

1. 12 hours writing courses
  - A. 6 hours creative writing
    - ENGL-3523 Creative Writing I
    - ENGL-3533 Creative Writing II
  - B. 3 hours individualized writing
    - ENGL-3813 Individualized Writing
  - C. 3 hours technical writing
    - ENGL-3493 Technical Writing
2. 3 hours literary criticism
  - ENGL-3013 Literary Criticism
3. 9-15 hours 3000/4000 level literature courses
4. 6 hours grammar and linguistics
  - ENGL-3313 Introduction to Linguistics
  - ENGL-3713 Structure of the English Language
5. 3-9 hours journalism
  - COMM-2113 Media Writing
  - COMM-3523 Reporting and Editing the News
  - COMM-3823 Feature Writing
6. 3 hours Senior Seminar
  - ENGL-4733 Senior Seminar

Two courses in the same foreign language,  
minimum total — 6 hours

**\*\*Students cannot use a course in a major and a minor. If a course that is required in the student's major is also required in his or her minor, a substitute course should be chosen with the help of the student's advisor.**

## SPANISH

### **B.A. Degree in Spanish 30 hours, minor required**

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

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

1. Demonstrate proficiency in speaking, reading, and writing in the Spanish language to participate in fluid conversations with native speakers of Spanish, read and understand prose and poetry in the target language, and write research papers and essays in Spanish.

2. Have an awareness and appreciation of the cultures of Spanish-speaking countries including the customs, religion and general way of life of their own country as it compares with that of Spanish speaking countries and important Hispanic authors, movements and historical events.
3. Have familiarity with the structure of the Spanish language, including the grammar of their native language as it compares with that of Spanish, and have the ability to use all verb tenses in Spanish interchangeably.
4. Engage in and articulate a personal integration of faith and learning.

#### Degree requirements

1. 9 hours literature
  - SPAN-3213 Spanish Literary Readings
  - SPAN-4113 Studies in Spanish Literature
  - SPAN-4213 Studies in Latin American Literature
2. 3 hours advanced grammar and conversation
3. 3 hours Hispanic civilization
  - SPAN-3223 Hispanic Civilization
4. 9 hours Spanish electives
5. 3 hours Spanish Immersion Lab
  - SPAN-4711 Spanish Immersion Lab

This course must be taken three times.
6. 3 hours Senior Seminar
  - SPAN-4623 Senior Spanish Capstone

Successful completion of Senior Capstone meets the requirements for all strands of language and Literature majors.

Two courses in one foreign language other than Spanish (minimum total — 6 hours)

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

#### Spanish Proficiency

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

## DEPARTMENT OF MUSIC

### **B.A. Degree in Music (With emphasis in voice, piano, or other) 51 hours, no minor required**

The B.A. degree in music is for students desiring to study music in a liberal arts curriculum. In the tradition of a liberal arts education, this

degree offers preparation for careers and graduate study not only in music, but in many other disciplines.

An OC graduate with a Bachelor of Arts or Bachelor of Music Education degree will:

1. Demonstrate the ability to hear, identify, and work conceptually with the elements of music: rhythm, melody, harmony and structure.
2. Demonstrate an understanding of compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces.
3. Demonstrate an acquaintance with a wide selection of musical literature, the principal eras, genres, and cultural sources.
4. Demonstrate the ability to communicate clearly and think independently, critically, and creatively regarding musical judgments.
5. Demonstrate an ability in performing areas appropriate to the student's needs and interests, and the standards of the department, and the ability to perform from a cross-section of that repertory.
6. Demonstrate an ability to sight read.
7. Demonstrate an acquaintance with repertoires beyond the area of specialization through attending recitals, concerts, musical theater and opera productions, and other performances.

#### Degree requirements

1. 11 hours basic theory
  - MUSC-1112 Music Theory I
  - MUSC-1211 Ear Training II
  - MUSC-1212 Music Theory II
  - MUSC-2111 Ear Training III
  - MUSC-2112 Music Theory III
  - MUSC-2211 Ear Training IV
  - MUSC-2212 Music Theory IV
2. 4 hours class piano
  - MUSC-1581 Class Piano I
  - MUSC-1681 Class Piano II
  - MUSC-2581 Class Piano III
  - MUSC-2681 Class Piano IV
3. 9 hours music history
  - MUSC-3323 Music History I
  - MUSC-3333 Music History II
  - MUSC-3343 Music History III
4. 4 hours advanced theory and technique
  - A. 2 hours
    - MUSC-3412 Orchestration
  - B. 2 hours conducting
    - 1) Vocal
      - MUSC-4212 Choral Conducting I
    - 2) Instrumental
      - MUSC-4312 Instrumental Conducting I
5. 3 hours music technology
  - MUSC-3513 Music Education Technology
6. 10 hours applied music selected from vocal and instrumental study with consent of advisor
7. 5 hours music electives other than ensembles
8. 4 hours music ensemble (1300 or 1400 level courses)
9. 1 hour capstone project or recital
  - MUSC-4001 Senior Recital
  - or

MUSC-4011 Senior Project  
Two courses in the same foreign language  
(minimum total — 6 hours)

### **B.M.E. Degree in Music 82 hours, no minor required**

The B.M.E. Degree is for students pursuing a teaching career in music.

The student chooses either a vocal or instrumental emphasis. Although a student may complete the vocal or instrumental emphasis B.M.E. degree in four years of study, extending this period will be desirable in most cases. The degree provides the student with the necessary coursework required for the standard teaching certificate as outlined by the Oklahoma State Department of Education.

### **B.M.E. Degree in Music/Instrumental Emphasis 52 hours, Professional Education minor required**

#### Degree requirements

1. 11 hours basic theory
  - MUSC-1112 Music Theory I
  - MUSC-1211 Ear Training II
  - MUSC-1212 Music Theory II
  - MUSC-2111 Ear Training III
  - MUSC-2112 Music Theory III
  - MUSC-2211 Ear Training IV
  - MUSC-2212 Music Theory IV
2. 4 hours class piano
  - MUSC-1581 Class Piano I
  - MUSC-1681 Class Piano II
  - MUSC-2581 Class Piano III
  - MUSC-2681 Class Piano IV
3. 9 hours music history
  - MUSC-3323 Music History I
  - MUSC-3333 Music History II
  - MUSC-3343 Music History III
4. 5 hours advanced theory and technology
  - MUSC-3412 Orchestration
  - MUSC-3513 Music Education Technology
5. 8 hours music technique
  - A. 4 hours class instruments
    - MUSC-3121 Class Woodwinds
    - MUSC-3131 Class Brass
    - MUSC-3141 Class Percussion
    - MUSC-3151 Class Strings
  - B. 4 hours conducting
    - MUSC-4312 Instrumental Conducting I
    - MUSC-4322 Instrumental Conducting II
6. 10 hours applied music study
  - A. 8 hours major performance instrument
  - B. 1 hour secondary instrument
  - C. 1 hour voice
7. 4 hours music ensemble, 1300-1400 level courses
8. 1 hour capstone project or recital
  - MUSC-4001 Senior Recital
  - or
  - MUSC-4011 Senior Project

9. 23 hours professional education minor
  - EDUC-3121 Orientation to Teacher Education
  - EDUC-3122 The School in American Culture
  - EDUC-3213 Learning, Instruction and Assessment
  - EDUC-3723 Education of the Exceptional Child
  - EDUC-4013 Human Relations and Behavior Management
  - EDUC-4133 Critical Issues in Education
  - EDUC-4818 Student Teaching in the Elementary and Secondary Schools
10. 7 additional semester hours
  - EDUC-4422 Elementary Music Methods
  - EDUC-4432 Secondary Instrumental Music Methods
  - PSYC-3523 Developmental Psychology
11. Fulfillment of competency in a foreign language

**B.M.E. Degree in Music/Vocal Emphasis**  
**53 hours, Professional Education minor required**  
 Degree requirements

1. 11 hours basic theory
  - MUSC-1112 Music Theory I
  - MUSC-1211 Ear Training II
  - MUSC-1212 Music Theory II
  - MUSC-2111 Ear Training III
  - MUSC-2112 Music Theory III
  - MUSC-2211 Ear Training IV
  - MUSC-2212 Music Theory IV
2. 4 hours class piano
  - MUSC-1581 Class Piano I
  - MUSC-1681 Class Piano II
  - MUSC-2581 Class Piano III
  - MUSC-2681 Class Piano IV
3. 9 hours music history
  - MUSC-3323 Music History I
  - MUSC-3333 Music History II
  - MUSC-3343 Music History III
4. 5 hours advanced theory and technology
  - MUSC-3412 Orchestration
  - MUSC-3513 Music Education Technology
5. 10 hours music technique
  - MUSC-2512 Diction I: English and Italian
  - MUSC-2522 Diction II: French and German
  - MUSC-3452 Vocal Pedagogy
  - MUSC-4212 Choral Conducting I
  - MUSC-4222 Choral Conducting II
6. 9 hours applied music study
  - A. 1 hour piano
  - B. 8 hours voice
7. 4 hours music ensemble (1300-1400 level courses)
8. 1 hour capstone project or recital
  - MUSC-4001 Senior Recital
  - or
  - MUSC-4011 Senior Project
9. 23 hours professional education minor
  - EDUC-3121 Orientation to Teacher Education
  - EDUC-3122 The School in American Culture
  - EDUC-3213 Learning, Instruction and Assessment
  - EDUC-3723 Education of the Exceptional Child
  - EDUC-4013 Human Relations and Behavior Management
  - EDUC-4133 Critical Issues in Education
  - EDUC-4818 Student Teaching in the Elementary and Secondary Schools

10. 7 additional semester hours
  - EDUC-4422 Elementary Music Methods
  - EDUC-4442 Secondary Vocal Music Methods
  - PSYC-3523 Developmental Psychology
11. Fulfillment of competency in a foreign language

Special Requirements for all Music Majors:

1. All prospective music majors must take placement exams in music fundamentals and piano. Credit may be earned for previous study if your skills meet departmental expectations.
2. All prospective music majors must audition in their major performance area during their second semester for official acceptance into a music degree program.
3. All music majors must enroll in MUSC-1000, Recital Attendance, each semester. A minimum grade of C must be earned in at least 6 of those semesters.
4. All music majors are required to audition for at least one approved ensemble each semester. Only four hours of credit will apply toward the degree program. The faculty may direct pianists to substitute accompanying for ensemble experience.
5. As a graduation requirement, students must pass the two sections of the Piano Proficiency Exam as described in departmental publications. The Repertoire section is given as the final exam for MUSC-2581, and the Functional Skills section is the final exam for MUSC-2681. Music majors should continue to enroll in class piano or applied piano each semester until the exam is successfully completed.
6. No music major will be permitted to participate in commencement exercises without having:
  - a. Passed the Piano Proficiency Exam.
  - b. Completed all requirements for the senior recital/senior project, MUSC-4001/4011. Each music major should consult the music department chair regarding the cut-off date after which the student will forfeit the opportunity to participate in upcoming commencement exercises should the stated requirements not yet be completed.

## DEPARTMENT OF PSYCHOLOGY AND FAMILY STUDIES

### FAMILY STUDIES

**B.S. Degree in Family Studies**  
**57 hours, no minor required**

The B.S. Degree in Family Studies is a pre-professional degree that emphasizes preparation for graduate school. Students who wish to pursue advanced degrees, either the master's or doctorate, are encouraged to pursue this degree rather than the B.S. Degree in Family Studies/Child Development. With the growth of marriage and family graduate school programs and the increasing influence of systems theory in psychology, the need to prepare students for study as marriage and family counselors is increasing.

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

1. Demonstrate knowledge of the dynamic nature of the family and of the conceptual framework on which current family relations theories are based.
2. Exhibit professional development in the research field by presenting an experimental research project at a state level conference.



3. Demonstrate a knowledge of various cultures and family structure types in our society.
4. Demonstrate knowledge of career opportunities applicable to Family Studies majors on the bachelor and graduate degree levels.
5. Have GRE scores adequate for admission to most regional universities.
6. Gain admission to a graduate school commensurate to GPA and GRE scores.
7. Demonstrate spiritual development and service to the church.
8. Develop an international perspective that encourages appreciation of individual differences.

#### Degree requirements

##### 1. 36 hours Family Studies

###### A. 24 hours

- FMST-1113 Introduction to Family Studies
- FMST-2423 Parent-Child Relations
- FMST-3523 Human Sexuality
- FMST-3933 Cybernetics and Systems Theory
- FMST-4123 Divorce and Stepfamily Relationships
- FMST-4323 Introduction to Marital and Family Therapy
- FMST-4653 Research Seminar, must be passed with a grade of

###### C or better

- FMST-4713 Family Studies Practicum

###### B. 3 hours chosen from

- FMST-3723 Gerontology
- PSYC-3523 Developmental Psychology

###### C. 3 hours chosen from

- FMST-3613 Adolescence and Early Adulthood
- FMST-3913 Family Development

###### D. 6 hours Family Studies electives

##### 2. 21 hours Psychology

###### A. 15 hours

- PSYC-1113 General Psychology I
- PSYC-2413 Introductory Statistics
- PSYC-3213 Advanced Psychological Statistics
- PSYC-3313 Abnormal Psychology
- PSYC-4623 Experimental Psychology

###### B. 6 hours Psychology electives

3. All students completing this degree will be required to take the GRE general test the semester prior to graduating (example: if you plan to graduate in the spring, the test must be taken during the fall semester) and have one copy of the scores sent to OC. The cost of this exam will be the student's responsibility. Note: As of May 2010, the cost for the GRE was \$160.

### **B.S. Degree in Family Studies/ Child Development**

#### **48 hours, minor required**

This degree has as its emphasis a strong general education in the field of Family Studies/Child Development and provides students with a broad, general approach to the study of the family. This degree is primarily intended for those students who do not wish to pursue graduate school.

An OC graduate with a Bachelor of Arts degree in Family Studies/Child Development will:

1. Demonstrate knowledge of the dynamic nature of the family and of the conceptual framework on which current family relations

theories are based.

2. Gain approval as a Certified Family Life Educator (CFLE).
3. Demonstrate a knowledge of various cultures and family structure types in our society.
4. Demonstrate knowledge of career opportunities applicable to Family Studies majors on the bachelor's level.
5. Demonstrate spiritual development and service to the church.
6. Develop an international perspective that encourages tolerance and appreciation of individual differences.

#### Degree requirements

##### 1. 36 hours Family Studies

###### A. 30 hours

- BIBL-3453 Personal and Family Finance
- COMM-3353 Interpersonal Communication
- FMST-1113 Introduction to Family Studies
- FMST-2423 Parent-Child Relations
- FMST-3513 Child Welfare
- FMST-3523 Human Sexuality
- FMST-3533 Family Life Education
- FMST-4123 Divorce and Stepfamily Relationships
- FMST-4713 Family Studies Practicum
- FMST-4733 Professional, Ethical and Legal Issues

###### B. 6 hours Family Studies electives

##### 2. 12 hours in Child Development chosen from

- CHDV-3013 Nature and Characteristics of the Preschool and Primary Age Child
- CHDV-4023 Topics in Early Childhood
- FMST-3613 Adolescence and Early Adulthood
- FMST-3723 Gerontology
- FMST-3913 Family Development
- PSYC-3523 Developmental Psychology

A minor in psychology is highly recommended.

## PSYCHOLOGY

### **B.A. Degree in Psychology 43 hours, minor required**

The B.A. Degree in Psychology emphasizes a strong general education in the field of psychology for students who may not want to go on for graduate work. The department recognizes that graduate school is not for everyone and also recognizes the value of having a general liberal arts degree. Enough preparatory classes are required in the B.A. degree that if a student later decides to seek admission into a graduate school, only a small number of leveling courses will typically be required.

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

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

#### Degree requirements

##### 1. 43 hours psychology

###### A. 28 hours

- PSYC-1113 General Psychology I
- PSYC-1211 Introductory Seminar in Psychology
- PSYC-2223 General Psychology II
- PSYC-2413 Introductory Psychological Statistics
- PSYC-3313 Abnormal Psychology
- PSYC-3413 Social Psychology
- PSYC-3713 Personality
- PSYC-4413 Biological Psychology
- PSYC-4623 Experimental Psychology
- PSYC-4713 History and Systems in Psychology

B. 3 hours chosen from

- PSYC-3523 Developmental Psychology
- PSYC-3543 Adult Development and Aging

C. 12 hours psychology elective

Two courses in the same foreign language (minimum total — 6 hours).

*Note: MATH-1213 College Algebra in the core curriculum is strongly recommended.*

### **B.S. Degree in Psychology 58 hours, no minor required**

The B.S. Degree is a pre-professional degree that emphasizes preparation for graduate school. Students who wish to pursue master's or doctorate degrees are encouraged to pursue the B.S. degree.

An OC graduate with Bachelor of Science degree in Psychology will:

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

Degree requirements

1. 52 hours psychology

A. 34 hours required psychology

- PSYC-1113 General Psychology I
- PSYC-1211 Introductory Seminar in Psychology
- PSYC-2413 Introductory Psychological Statistics
- PSYC-3213 Advanced Psychological Statistics
- PSYC-3313 Abnormal Psychology
- PSYC-3413 Social Psychology
- PSYC-3713 Personality
- PSYC-4213 Psychology of Learning
- PSYC-4413 Biological Psychology
- PSYC-4623 Experimental Psychology
- PSYC-4653 Research Seminar
- PSYC-4713 History and Systems in Psychology

B. 3 hours chosen from

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

C. 18 hours Psychology electives

2. 3 hours mathematics

MATH-1213 College Algebra

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

*Note: As of May 2010, the cost for the GRE was \$160.*

## **MINOR REQUIREMENTS**

### **ART & DESIGN**

#### **Art Minor**

21 hours of art

- ARTS-1103 Foundations For Digital Visuals
- ARTS-1113 Fundamentals of Drawing
- ARTS-1213 Figure Drawing
- ARTS-1413 Elements of Visual Thinking
- ARTS-3113 Printmaking
- ARTS-2513 Painting I  
or  
ARTS-3523 Illustration I  
and  
ARTS-3343 Ancient to Modern Art History  
or  
ARTS-3353 Contemporary Art

#### **Graphic Design Minor**

24 hours of art

1. 21 hours required

- ARTS-1103 Foundations for Digital Visuals
- ARTS-1113 Fundamentals of Drawing
- ARTS-1413 Elements of Visual Thinking
- ARTS-2223 Introduction to Communication Design
- ARTS-2233 Type as Visual Language
- ARTS-2323 Digital Design for Print

2. 3 hours chosen from

- ARTS-3243 Graphic Design
- ARTS-3253 Print Media Design

*Note: For B.S.E. candidates seeking a teaching minor in art, the addition of ARTS-2013-Introduction to the Visual Arts, which fulfills the fine arts appreciation requirement in the core curriculum, will allow this minor to meet the Oklahoma Provisional Level 1 course requirements.*

#### **Interior Design Minor**

18 hours interior design

- ARTS-1623 Introduction to Interior Design
- ARTS-1643 Interior Textiles, Materials and Finishes
- ARTS-1653 Computer Aided Design
- ARTS-2623 Residential Interior Design
- ARTS-2663 Architectural Graphics for Interior Design
- ARTS-3533 Historic Interior Design, Antiquity to 1850  
or  
ARTS-3633 Contemporary Interior Design, 1850 to present

#### **New Media Minor**

21 hours

ARTS-1103	Foundations for Digital Visuals
ARTS-1113	Fundamentals of Drawing
ARTS-1413	Elements of Visual Thinking
ARTS-2223	Introduction to Communication Design
ARTS-2243	Interactive Media Design
ARTS-3153	Digital 3D Modeling and Animation
ARTS-4223	New Media Studio

### **Photography Minor**

21 hours

ARTS-1103	Technology for Graphics
ARTS-1113	Fundamentals of Drawing
ARTS-1413	Elements of Visual Thinking
ARTS-2403	Digital Photography
ARTS-2523	Form and Communication
ARTS-3363	Photography I
ARTS-3373	Photography II

## **BIOLOGY**

### **Biology Minor**

18 hours biological sciences

## **CHEMISTRY AND PHYSICS**

### **Chemistry Minor**

18 hours chemistry, including at least six hours numbered 3000 or above.

### **Physical Sciences Minor**

18 hours of any combination of chemistry, engineering science, general science, and physics.  
6 hours must be upper division.

## **COMMUNICATION**

### **Communication Studies Minor**

18 hours speech communication with at least 6 hours 3000/4000 level courses. Not more than 3 hours of 1300 courses may count toward the minor. May not include COMM-1213.

### **Interactive Media Minor**

19 hours

ARTS-1103	Foundations for Digital Visuals
ARTS-2243	Interactive Media Design
ARTS-3153	Digital 3-D Modeling and Animation
COMM-1211	Introduction to Electronic Media
COMM-3633	Audio for Media
COMM-3643	Video for Media
COMM-3703	Computer Graphics for Broadcast

### **Mass Communication Minor**

18 hours

1. 6 hours

COMM-2113	Media Writing
COMM-2613	Media and Society

2. 12 hours in a focused area (journalism, public relations or electronic media) to be worked out with the appropriate advisor.

### **Media Production Minor**

18 hours

1. 13 hours required

COMM-1211	Introduction to Electronic Media
COMM-3343	Advertising Copywriting
COMM-3633	Audio for Media
COMM-3733	Media Marketing and Sales
COMM 4513	Administrative Aspects of Electronic Media

2. 2 hours workshop/internship

Take 2 additional hours of workshop or internship or an advanced production course

3. 3 hours chosen from

ACCT-2113	Accounting Principles I
ECON-2113	Macroeconomics

### **Organizational Communication Minor**

18 hours

1. 9 hours

COMM-3113	Business and Professional Communication
COMM-3323	Organizational Communication
COMM-3333	Group Communication

2. 9 hours chosen from

COMM-2113	Media Writing
COMM-3723	Interviewing and Listening
COMM-4113	Persuasion
MGMT-3113	Principles of Management

### **Theater Performance Minor**

18 hours required

1. 3 hours required

COMM-1411	Introduction to Play Production
COMM-1412	Movement and Choreography for the Stage

2. 3 hours acting chosen from

COMM-2023	Acting Styles
COMM-2313	Acting I

3. 3 hours chosen from

COMM-3213	Stage Directing
COMM-4213	Performance Conventions

4. 9 hours chosen from

COMM-2023	History of Theater I
COMM-2033	History of Theater II
COMM-2213	Voice and Articulation
COMM-2223	Stagecraft for Theater and Television
COMM-3123	Oral Interpretation
COMM-3223	Theater Design
COMM-4103	Modern Drama
COMM-4813	Religious and Supernatural Drama

### **Drama Ministry Minor**

18 hours required

1. 2 hours required

YTMN-4122	Media and Culture
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\*Students required to complete this course for a major must select another upper division text-based Bible (BIBL) course.

2. 1 hour chosen from

COMM-4831	Communication Practicum
COMM-4901	Independent Study in Communication

2. 6 hours theater

6 hours from Communication Department as approved by advisor.

3. 3 hours Bible chosen from

BIBL-2203	Biblical Exegesis
BIBL-3013	Hermeneutics

4. 6 hours Bible chosen from
  - BIBL-3002 Genesis to Exodus
  - BIBL-3102 I Corinthians
  - BIBL-3223 The Pentateuch
  - BIBL-3213 Galatians, I and II Thessalonians
  - BIBL-3512 Prison Epistles
  - BIBL-3613 Job to Song of Solomon
  - BIBL-3712 Hebrews

### **Dramaturgy Minor**

18 hours required

1. 6 hours chosen from
  - ENGL-4103 Modern Drama
  - ENGL-4213 Studies in Shakespeare
  - COMM-4813 Special Studies: Dramatic Literature
2. 6 hours theater
  - 6 hours from Communication Department as approved by advisor.
3. 6 hours English chosen from
  - ENGL-3013 Literary Criticism
  - ENGL-3123 World Literature 1: Classical to Renaissance
  - ENGL-3133 World Literature II: Renaissance to Modern
  - ENGL-3153 English Literature Survey I
  - ENGL-3253 English Literature Survey II
  - ENGL-3523 Creative Writing I

## **HISTORY AND POLITICAL SCIENCE**

### **History Minor**

18 hours history, 9 of which must be 3000/4000 level courses.

### **Political Science Minor**

18 hours

1. 3 hours
  - POLS-2113 Introduction to American Politics
2. 6 additional hours Political Science
3. 9 hours of 3000/4000 level Political Science

### **Social Science Minor**

18 hours social science (economics, sociology, geography, history, and political science), under one of two plans:

Two of the above areas with 9 hours each.

or

Three areas with 6 hours each.

At least 9 hours must be 3000/4000 level courses.

## **INTERDISCIPLINARY STUDIES**

### **International Studies Minor**

18 hours including 9 hours of 3000/4000 level courses. You must participate in an approved Oklahoma Christian study abroad program. Contact Office of International Programs for a list of approved programs.

or

6 hours of the same foreign language  
and

12 hours chosen from approved courses.

List of approved courses is available in the International Office.

### **Military Science Minor**

18 hours Military Science with at least 9 hours 3000/4000 level courses. All Military Science classes will be taken at University of Central Oklahoma or University of Oklahoma.

## **LANGUAGE AND LITERATURE**

### **English Minor**

18 hours English with at least 9 hours of 3000/4000 level courses.

### **Spanish Minor**

18 hours Spanish with at least 9 hours of 3000/4000 level courses.

### **TEFL Minor**

18 hours

1. 15 hours
  - ENGL-3313 Introduction to Linguistics
  - ENGL-3713 Structure of the English Language
  - ENGL-4633 Intercultural Communication I
  - ENGL-4713 Methods of TEFL
  - ENGL-4863 TEFL Student Teaching Practicum
2. 3 hours chosen from
  - ENGL-1331 TEFL Experience
  - ENGL-3453 Technical Writing
  - HIST-3133 Latin American Peoples
  - HIST-3143 Civilizations of the Pacific Rim
  - SOCI-3513 World Religions
  - SOCI-3613 Cultural Anthropology

### **Writing Minor**

18 hours

1. 9 hours
  - ENGL-3013 Literary Criticism
  - ENGL-3493 Technical Writing
  - ENGL-3813 Individualized Writing
2. 9 hours chosen from
  - ENGL-3313 Introduction to Linguistics
  - ENGL-3523 Creative Writing I
  - ENGL-3533 Creative Writing II
  - ENGL-3713 Structure of the English Language
  - ENGL-4851 Practicum in Writing/Research and Editing
  - ENGL-4852 Practicum in Writing/Research and Editing
  - COMM-2113 Media Writing
  - COMM-3523 Reporting and Editing the News
  - COMM-3823 Feature Writing

## **MUSIC**

### **Music Minor**

18 hours

1. 8 hours basic music theory
  - MUSC-1023 Fundamentals of Music Theory
  - MUSC-1112 Music Theory I
  - MUSC-1211 Ear Training II
  - MUSC-1212 Music Theory II
2. 3 hours music history chosen from
  - MUSC-3323 Music History I
  - MUSC-3333 Music History II
  - MUSC-3343 Music History III
3. 5-7 hours ensemble performance and applied study to be selected from 1300-1500 level courses, at least 2 hours must be applied instruction.
4. 0-2 hours class piano. The following two courses must be taken unless piano skills from pre-college study are deemed sufficient by the piano faculty.
  - MUSC-1581 Class Piano I



MUSC-1681 Class Piano II

5. Must enroll in MUSC-1000 and earn a grade of C or better at least three semesters.

## PSYCHOLOGY AND FAMILY STUDIES

### **Child Development Minor**

18 hours chosen from the following

- CHDV-3013 Nature and Characteristics of the Preschool and Primary Age Child
- CHDV-3023 Emergent Literacy
- CHDV-4023 Topics in Early Childhood
- EDUC-3723 Education of the Exceptional Child
- FMST-3113 Parent-Child Relations
- FMST-3313 The Family
- FMST-3513 Child Welfare
- PSYC-3523 Developmental Psychology

### **Family Studies Minor**

18 hours chosen from the following

- FMST-1113 Introduction to Family Studies
- FMST-3113 Parent-Child Relations
- FMST-3313 The Family
- FMST-2613 Human Sexual Development
- FMST-3723 Adult Development and Aging
- FMST-3913 Family Development
- FMST-4413 Family Crises and Treatment
- PSYC-3523 Developmental Psychology

### **Psychology Minor**

18 hours

1. 6 hours

- PSYC-1113 General Psychology I
  - PSYC-2223 General Psychology II
- and

2. 12 additional hours psychology to be determined by the student's goals with the approval of the department.

## COLLEGE OF PROFESSIONAL STUDIES DEGREE REQUIREMENTS



This is an exciting time to be at Oklahoma Christian University. There seem to be no boundaries to knowledge, innovation, and technology.

The College of Professional Studies is purposely people driven and focused on achieving excellence. This venture combines the Schools of Business Administration, Education, and Engineering. It incorporates the mission of OC and promotes the values of faith, scholarship, integrity, stewardship, and liberty.

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

We are dedicated to character, leadership, innovation, and hard work. We provide a distinctly Christian education that truly enriches the lives of our graduates. We prepare educated problem solvers and equip them to lead in business, teacher education, engineering, mathematics, computer and information sciences.

Our ultimate success is measured by the impact we have on internal and external constituents and the region. Our achievements are evidenced through the accomplishments of our graduates, the recognitions and professional accreditations given to our programs, the academic recognition of our faculty, and our commitment to facilitating a genuine learning environment.

## AREAS OF STUDY

### School of Business Administration

Accounting (ACCT)  
Business Administration (BUSA)  
Economics (ECON)  
Finance (FINC)  
Information Systems (INFO)  
International Business (INTL)  
Management (MGMT)  
Marketing (MKTG)  
Master of Business Administration (MBA)

### School of Education

Early Childhood Education (ECED)  
Education (EDUC)  
Elementary Education (ELEM)  
Physical Education (PHED)

### School of Engineering

#### Department of Mathematical, Computer, and Information Sciences

Computer Science (CMSC)  
Information Systems (INFO)  
Mathematics (MATH)

#### Department of Electrical and Computer Engineering

Computer Engineering (CENG)  
Electrical Engineering (ELEC)

#### Department of Mechanical Engineering

Mechanical Engineering (MECH)

## DEGREES OFFERED

### School of Business Administration

B.B.A. Degree in Accounting  
B.B.A. Degree in Finance  
B.B.A. Degree in General Business  
B.B.A. International Business  
B.B.A. Degree in Management  
B.B.A. Degree in Marketing Management  
M.B.A. Master of Business Administration Degree

### School of Education

B.S.E. Degree in Early Childhood Education  
B.S.E. Degree in Elementary Education  
B.S. Degree in Sport and Wellness  
B.S.E. Degree in Physical Education

### Secondary (Licensure, Grades 7-12)

(see respective departments for details)

B.S.E. Degree in Mathematics  
B.S.E. Degree in Science  
B.S.E. Degree in Social Studies

### Elementary-Secondary (Licensure pk-12)

(see respective departments for details)

B.M.E. Degree in Music  
B.S.E. Degree in Physical Education

### School of Engineering

#### Department of Mathematical, Computer, and Information Sciences

B.S. Degree in Computer Science  
B.S. Degree in Information Systems  
B.S. Degree in Mathematics  
B.S. Degree in Mathematics/Computer Science

B.S.E. Degree in Mathematics Education

#### Department of Electrical and Computer Engineering

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

#### Department of Mechanical Engineering

B.S.M.E. Degree in Mechanical Engineering  
M.S.E. Master of Science in Engineering Degree

## MINORS

### School of Business Administration

Accounting  
Finance  
General Business  
International Business  
Management  
Marketing

### School of Education

Physical Education  
Professional Education

### School of Engineering

#### Department of Mathematical, Computer, and Information Sciences

Computer Science  
Information Systems  
Mathematics

#### Department of Engineering

Engineering Minor

## FACULTY

Phillip V. Lewis, Ed.D., Dean of the College of Professional Studies, professor of management

### School of Business Administration

Phillip V. Lewis, Ed.D., Dean of the College of Professional Studies, professor of management  
Michael Cady, M.B.A., assistant professor of accounting  
Jana Cook, M.B.A., D.B.A. (candidate), assistant professor of economics and finance  
Mickey Cowan, M.B.A., professor of accounting  
Donald V. Drew, Ed.D., Dean, Graduate Programs, professor of management  
Elaine D. Kelly, M.B.A., C.P.A., department chair of accounting/finance, associate professor of accounting  
Jody L. Jones, M.B.A., Ed.D., (candidate), assistant professor of business and finance  
Kenneth A. Miller, Ph.D., associate professor of economics  
Kimberly Merritt, D.B.A., associate professor of information systems  
Joseph Paul, M.B.A., D.B.A. (candidate), assistant professor of business  
Kerianne Roper, D.B.A., associate professor of marketing  
Jeffery Simmons, Ph.D., department chair of management/marketing, associate professor of marketing  
Burt Smith, Ed.D., C.M.E., C.Q.M., associate professor of marketing

### School of Education

#### Teacher Education

Robyn Miller, Ed.D., department chair, professor of education  
Dwayne Cleveland, Ed.D., professor of education

Caren Feuerhelm, Ed.D., associate professor of education  
Darin Martin, Ed.D., associate professor of education  
Rhonda Morris, M.S.Ed., assistant professor of education  
John Vincent, Ed.D., professor of education  
Tina Winn, Ph.D., associate Professor of education

### **Physical Education**

Curtis Janz, M.S., Athletic Director, department chair of physical education, associate professor of physical education  
Max Dobson, Ph.D., professor of physical education  
Stephanie Findley, M.Ed., associate professor of physical education  
Dan Hays, M.S., M.Ed., professor of physical education  
Randy Heath, M.Ed., professor of physical education

### **School of Engineering**

Mathematical, Computer, and Information Science  
Don Leftwich, M.A., department chair, associate professor of mathematics and computer and information sciences  
Jennifer Bryan, Ph.D., associate professor of mathematics  
Ralph DeBoard, M.S., associate professor of mathematics and computer sciences  
T. Ray Hamlett, Ph.D., professor of mathematics  
Andy Harbert, M.S., assistant professor of computer and information sciences  
Paul Howard, M.S. assistant professor of mathematics  
Craig Johnson, Ph.D., associate professor of mathematics  
Monica Muza, M.S., Ph.D. (candidate), instructor of mathematics  
Lindsay Prugh, M.S., Ph.D. (candidate), instructor of mathematics

### **Electrical and Computer Engineering**

Jeffrey Bigelow, Ph.D., department chair, professor of electrical and computer engineering  
Steve Maher, M.S., associate professor of electrical and computer engineering  
Richard Miller, Ph.D., associate professor of electrical and computer engineering  
Pat Smith, M.S., associate professor of electrical and computer engineering  
David Waldo, Ph.D., professor of electrical and computer engineering  
W. Joe Watson, M.S.E.E., P.E., professor of electrical and computer engineering

### **Mechanical Engineering**

Byron Newberry, Ph.D., department chair, graduate engineering and mechanical engineering, professor of mechanical engineering  
S. David Cassel, Ph.D., P.E., professor of mechanical engineering  
William Ryan, Ph.D., P.E., professor of engineering sciences  
Wayne Whaley, Ph.D., P.E., professor of mechanical engineering

## **LOCATION**

### **Classrooms and Faculty Offices**

#### **Business**

Harvey Business Center

#### **Education**

Physical Education

Payne Activity Center

Teacher Education

Davisson American Heritage Building

#### **Electrical, Computer, and Mechanical Engineering**

Prince Engineering Center

Herold Science Hall

### **Mathematical, Computer, and Information Sciences**

Prince Engineering Center

Herold Science Hall

### **Dean's Office**

Harvey Business Center, Room 101

## **SCHOOL OF BUSINESS ADMINISTRATION**

Upon graduation from OC and the School of Business Administration, students have received a general education in liberal arts, are grounded in the knowledge of business, and have encountered opportunities for integrating learning into a workable framework within the context of the Christian faith consistent with the Word of God.

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

1. Written, oral, and technological communication skills that reflect logic, clarity, and kindness.
2. An ability to think analytically, logically, and creatively in order to utilize a variety of approaches to problem solving.
3. A heightened awareness of values, ethics, and service to others.
4. Knowledge of diversity, opportunity, and complexity within a global society.
5. An understanding of the importance of strategic decisions and their long-term impacts.
6. The development of skills basic to a chosen profession or field of study.
7. An understanding and appreciation of group dynamics and teamwork.
8. The ability to provide leadership for the organizations they choose for careers.

### **General Information**

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

1. University core curriculum requirements:  
All B.B.A. students must satisfy all core curriculum requirements.
2. Business core requirements:  
All B.B.A. students must complete the 46 hours of business core classes listed in the following section.
3. Specialized or minor requirements:  
Students majoring in Accounting, Finance, Management, and Marketing/Management are required to complete specialized course work in those fields. Students majoring in General Business also must complete the requirements for a minor.

### **Business Core Courses**

The business core is divided into three groups Lower and Upper Division, and the Capstone. The content and design of the core courses are such that the Lower Division should be completed before taking courses in the Upper Division. Upper Division core courses should be completed before moving to the Capstone.

#### **Lower Division (19 hours)**

ACCT-2113	Accounting Principles I
ACCT-2213	Accounting Principles II
BUSA-1211	Introduction to Business



- ECON-2113 Macroeconomic Principles
- ECON-2213 Microeconomic Principles
- MATH-1213 College Algebra
- MATH-2913 Statistical Methods

#### **Upper Division (24 hours)**

- BUSA-4213 Business Law
- BUSA-4513 International Business
- COMM-3113 Business and Professional Communication
- INFO-3113 Principles of Electronic Business
- MGMT-3113 Principles of Management
- MGMT-3213 Operations Management
- FINC-3313 Financial Management
- MKTG-3313 Principles of Marketing

#### **Capstone (3 hours)**

- MGMT-4613 Strategic Management

#### **Admission to Upper Division**

Experience has shown that the increasing level of business knowledge and skill provided by taking classes, according to the following guidelines, results in greater success for you. Lower Division courses should be completed before enrolling in Upper Division business courses. The following guidelines will be followed:

You will be cleared by your advisor to take Upper Division business courses when the following requirements are completed with a GPA of at least 2.0:

1. ENGL-1123 Communication I: Written Communication
2. COMM-1213 Communication II: Oral Communication
3. ENGL-2113 Communication III: Research and Presentation
4. MATH-1413 Finite Math
5. MATH-2913 Statistical Methods
6. Lower Division business core courses with a GPA of at least 2.0.
7. Overall GPA of at least 2.0.

Students who do not meet these requirements may be granted restricted approval to enroll in Upper Division business courses. If you drop any Lower Division core courses while on restricted approval, you must complete such courses before enrolling in another Upper Division business course. Restricted approval will be granted when you:

1. Make formal application and receive the approval of the Dean.
2. Enroll in all remaining Lower Division courses.
3. Have an overall GPA of at least 2.0 and a GPA of 2.0 on all other Lower Division courses.

#### **Grade Requirements**

All required specialized courses in the accounting, finance, management, and marketing/management majors must be completed with a grade of "C" or better. To continue in the upper core, a student must not have more than 15 semester hours of "D" grades. Accounting majors are required to make a grade of "C" or better in ACCT-2113 and ACCT-2213. Management majors are required to make a grade of "C" or better in MGMT-3113. Marketing/Management majors are required to make a grade of "C" or better in MKTG-3313. Finance majors are required to make a grade of "C" or better in FINC-3313. All students enrolling in BUSA-4513 and MGMT-4613 must be in their last year and eligible for graduation, with no more than 15 hours of "D" grades in their degree program.

#### **B.B.A. Degree in Accounting**

##### **70 hours, no minor required**

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

##### **Degree requirements**

1. The business core curriculum, 46 hours  
(See page 74 for business core requirements.)
2. 21 hours specialized courses
  - ACCT-3113 Intermediate Accounting I
  - ACCT-3213 Intermediate Accounting II
  - ACCT-3313 Cost Accounting
  - ACCT-3413 Income Taxation
  - ACCT-3513 Advanced Federal Taxation
  - ACCT-4113 Advanced Accounting I
  - ACCT-4413 Auditing
3. 3 hours chosen from
  - ACCT-3713 Accounting Information Systems
  - ACCT-4213 Advanced Accounting II
  - ACCT-4313 Advanced Cost Accounting
  - ACCT-4423 Ethics and Auditing Concepts

#### **B.B.A. Degree in Finance**

##### **70 hours, no minor required**

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

##### **Degree requirements**

1. The business core curriculum, 46 hours  
(See page 74 for business core requirements.)
2. 9 hours specialized courses
  - FINC-4113 Advanced Financial Management
  - FINC-4313 Financial Markets and Institutions
  - MATH-2113 Applied Calculus
3. 12 hours chosen from
  - FINC-3513 Money and Banking
  - FINC-3613 Investment Analysis
  - FINC-3713 International Finance
  - FINC-3813 Personal Finance
  - FINC-4513 Advanced Topics in Finance
  - FINC-4713 Principles of Insurance
4. 3 hours chosen from
  - ACCT-3113 Intermediate Accounting I
  - ACCT-3313 Cost Accounting I

#### **B.B.A. Degree in General Business**

##### **52 hours, minor required**

This program is a general one, preparing the student for entry into industrial or governmental organizations, but without specialization in a specific discipline within the business area.

#### Degree requirements

1. The business core curriculum, 46 hours (See page 113 for business core requirements).
2. Six hours of electives in 3000/4000 level business courses as approved by advisor.
3. A minor of at least 18 hours. The purpose of a minor is to broaden the student's educational experiences. If a minor is chosen in the area of business, it must be exclusive of the work used in the business major. Courses cannot count in both the major and the minor.

#### **B.B.A. Degree in International Business** **70 hours, no minor required**

The International Business major prepares students to work in a global environment, both domestic and foreign. The specialization develops skills for navigating complex international business and management issues, and develops intercultural competencies uncommon among most business students.

1. The business core curriculum, 46 hours (See page 74 for business core requirements.)
  2. 15 hours specialized business courses
    - INTL-4123 International Finance
    - INTL-4413 International Management
    - INTL-4513 International Economics
    - INTL-4723 Global Marketing
    - INTL-4813 International Consulting and Development
  3. 6 hours of the same modern foreign language
  4. 3 hours of directed international practicum/internship\*
- \*Guided visit to world financial centers led by Business faculty members.

#### **B.B.A. Degree in Management** **64 hours, no minor required**

The business management program is oriented toward the behavioral and organizational aspects of industrial, commercial, and institutional organizations. This degree is for students preparing for a career in supervisory and management positions.

#### Degree requirements

1. The business core curriculum, 46 hours (See page 74 for business core requirements.)
2. 18 hours specialized business courses
  - A. 3 hours of accounting
    - ACCT-3313 Cost Accounting
  - B. 12 hours of management courses
    - BUSA-3713 Contemporary Business Ethics
    - MGMT-3323 Entrepreneurship and Small Business Management
    - MGMT-4313 Organizational Behavior
    - MGMT-4513 Human Resource Management
- C. 3 hours of elective courses chosen from
  - MGMT-3533 Issues in Management
  - MGMT-4993 Internship in Management

#### **B.B.A. Degree in Marketing Management** **64 hours, no minor required**

The Marketing/Management program prepares students for traditional marketing, promotion, sales, sales management, and

marketing research responsibilities. This specialization develops skills for the recognition and analysis of marketing problems, both from the organizational and external market perspectives.

#### Degree requirements

1. The business core curriculum, 46 hours (See page 74 for business core requirements).
2. A minimum of 12 hours of specialized courses
  - MKTG-3413 Consumer Behavior
  - MKTG-3713 Sales Management and the Sales Process
  - MKTG-4513 Marketing Research
  - MKTG-4613 Marketing Management
3. 6 hours of elective courses chosen from
  - MKTG-3513 E-Commerce and Online Marketing
  - MKTG-4313 Promotional Strategies
  - MKTG-4723 Global Marketing
  - MKTG-4993 Internship in Marketing
  - MGMT-3323 Entrepreneurship and Small Business Management

#### **GRADUATE PROGRAM**

The School of Business Administration also offers a Master of Business Administration (MBA) degree. Undergraduate students interested in pursuing the MBA degree after graduation should see the MBA Director, HBC 120.

## SCHOOL OF EDUCATION

#### **Teacher Education**

The Teacher Education Program is designed to ensure that teacher candidates develop a strong foundation in the liberal arts, a sound knowledge of their discipline, an understanding of how students learn, and a reasonable mastery of communication skills.

Preparation of effective classroom teachers has long been recognized as a strength of OC. The Teacher Education Program has a history of excellent results, including high pass rates on state certification exams and high placement rates for graduates.

The teacher education program is approved by the Oklahoma Commission for Teacher Preparation. The unit is accredited by the National Council for Accreditation of Teacher Education (NCATE), and OC has been a NCATE accredited institution since 1972.

#### **Teacher Certification Process**

##### STEP 1: ADMISSION TO TEACHER EDUCATION

After you have completed three semesters of work, you should apply for admission to Teacher Education, at which time a first check of character and scholarship will be made.

Requirements for admission to Teacher Education:

1. Forty-five semester hours of credit with a GPA of 2.75.
2. Grade of C or better in EDUC-3121, EDUC 3122 (must have a GPA of 2.65 to enroll).
3. Recommendation of major department.
4. Recommendation of the Office of Student Life.
5. Satisfactory completion of the Teacher Education Writing Evaluation.
6. Grade of C or better in COMM-1213.
7. Recommendation of Teacher Education Interview Committee.
8. A written paper and oral presentation of your reasons for wanting

to enter the profession, presented to the Teacher Education Interview Committee.

9. One character reference.
10. Successful completion of OGET (required in program), or 3.0 GPA on 20 hours selected liberal arts courses which delays the OGET for one semester.
11. Satisfactory portfolio review.
12. Documentation of successful participation in working with age level matching that of certification sought (PK-3, 6-12, PK-12). Field Experience – EDUC-3121.
13. Approval of Teacher Education Council.

*Note: Changes in teacher licensure requirements made by the state of Oklahoma may require that changes be made in the Teacher Education Program at OC.*

Students will apply for admission to Teacher Education early in the semester in which they are enrolled in EDUC-3121, Orientation to Teacher Education. Applications will be processed during that semester; those admitted to candidacy at the end of the semester will be notified and will be able to proceed in the Teacher Education program.

To continue in teacher education, teacher candidates must maintain a cumulative GPA of 2.75 and a grade of C or better in all education courses. Students who fall below minimum requirements will not be able to continue in the Teacher Education program until the requirements are again met. You should confer with your advisors and or the chair of the school of education to develop a plan to meet all teacher education requirements.

#### STEP 2: ADMISSION TO STUDENT TEACHING

Requirements for admission to student teaching are:

1. Admission to Teacher Education.
2. 95 semester hours of credit.
3. Passing score on Oklahoma General Education Test (OGET).
4. Passing score on the appropriate Oklahoma Subject Area Test (OSAT).
5. Overall GPA of 2.75.
6. GPA of 3.00 in major.
7. Completion of two-thirds of major hours (All courses in the major must be completed before student teaching begins.)
8. Recommendation of major department.
9. Recommendation of the Office of Student Life.
10. Satisfactory completion of all field experiences.
11. Fulfillment of the requirements for a foreign language, other than English, at the novice high level for listening and speaking. This requirement may be met by two years of the same foreign language in high school with a grade of "C" or better, or three hours of college credit in a foreign language with a grade of "C" or better.
12. Satisfactory portfolio review.
13. Approval of the Teacher Education Council.

#### Student Teaching

See "Teacher Education Handbook" and "Field Experiences Handbook" for guidelines, procedures, and requirements.

#### State Required Tests

All candidates for an Oklahoma teaching license must pass three exams:

Oklahoma General Education Test (OGET), Oklahoma State Subject Area Test (OSAT), Oklahoma Professional Teaching Exam (OPTE). For testing information visit [www.ceoenesinc.com](http://www.ceoenesinc.com).

#### STEP 3: APPROVAL FOR LICENSE

To be recommended for a license, the applicant must complete student teaching and the appropriate Oklahoma Professional Teaching Exam (OPTE). After the teacher candidate has completed all requirements for graduation and licensure, you will be recommended for teaching license. Recommendation for licensure will be withheld if the applicant has not met all minimum requirements.

#### STEP 4: APPROVAL FOR CERTIFICATION

After receiving a teaching license, the first year teacher (in Oklahoma) must teach under the guidance of a residency committee. The residency committee will determine whether to recommend the licensed teacher for certification.

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

1. Show that he or she has acquired competency in a broad general education through study in the liberal arts by successfully completing the university core curriculum and passing the Oklahoma General Education Test (OGET).
2. Demonstrate an in-depth knowledge of the subject matter for the subject and level to be taught by achieving a 3.00 GPA in the major field and passing the Oklahoma Subject Area Test (OSAT) appropriate to the major field.
3. Demonstrate that he or she has acquired the knowledge, skills, and dispositions appropriate for initial entry into the profession of teaching by completing a specified curriculum in professional education courses with no grades below a grade of C, passing the Oklahoma Professional Teacher Education Exam (OPTE), and receiving average ratings of Proficient on the Formative and Summative assessments in student teaching.

#### B.S.E. Degree in Early Childhood Education Licensure: Preschool – Grade 3

##### Degree requirements

1. 33 hours major

Early Childhood Education – 14 hours

Elementary Education – 19 hours

ECED-3013	Nature and Characteristics of Early Childhood
ECED-3013P	Nature and Characteristics Practicum
ECED-3023	Emergent Literacy
ECED-4013	Cognitive Skills
ECED-4023	Topics in Early Childhood
ECED-4112	Early Childhood Practicum
ELEM-3233	Literacy I, Early Development of Literacy in Children
ELEM-3233P	Literacy I Practicum
ELEM-3323	Movement and Fine Arts
ELEM-3333	Literacy II, Literacy Strategies for Primary Grades
ELEM-3632	Social Studies for the Primary Child
ELEM-3733	Mathematics for the Primary Child
ELEM-3832	Science for the Primary Child
ELEM-3900P	Primary Practicum
PSYC-3523	Developmental Psychology

*Note: Practicum courses (P) do not affect the GPA and do not add to the semester course load. Grades earned in practicum courses reflect candidate performance in public school classrooms.*

2. 48 hours general education

Communication	12 hours
Mathematics	12 hours
Science	12 hours
Social Studies	12 hours

University core courses apply to these requirements.

3. 25 hours professional education

EDUC-3121	Orientation to Teacher Education
EDUC-3122	The School in American Culture
EDUC-3213	Learning, Instruction and Assessment
EDUC-3422	Educational Technology
EDUC-3723	Education of the Exceptional Child
EDUC-4013	Human Relations and Behavior Management
EDUC-4133	Critical Issues in Education
EDUC-4618	Student Teaching in the Elementary School

4. Foreign Language Competency, choose one:-

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

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

### **B.S.E. Degree in Elementary Education**

#### **Licensure: Grades 1-8**

#### **Degree requirements**

1. 32 hours major, elementary education

ELEM-3233	Literacy I, Early Development of Literacy in Children
ELEM-3233P	Literacy I Practicum
ELEM-3323	Movement and Fine Arts
ELEM-3333	Literacy II, Literacy Strategies for Primary Grades
ELEM-3632	Social Studies for Primary Students
ELEM-3733	Mathematics for Primary Students
ELEM-3832	Science for Primary Students
ELEM-3900P	Primary Practicum
ELEM-4242	Social Studies for Intermediate Students
ELEM-4342	Mathematics for Intermediate Students
ELEM-4433	Literacy III, Literacy Strategies for Intermediate Grades
ELEM-4443	Science for Intermediate Students
ELEM-4543	Literacy IV, Assessment Strategies for Intermediate Grades 4-8
ELEM-4543P	Literacy IV Practicum
ELEM-4900P	Intermediate Practicum
PSYC-3523	Developmental Psychology

*Note: Practicum courses (P) do not affect the GPA and do not add to the semester course load. Grades earned in practicum courses reflect candidate performance in public school classrooms.*

2. 48 hours general education

Communication	12 hours
Mathematics	12 hours
Science	12 hours
Social Studies	12 hours

University core courses apply to these requirements

3. 25 hours professional education minor.

EDUC-3121	Orientation to Teacher Education
EDUC-3122	The School in American Culture
EDUC-3213	Learning, Instruction and Assessment
EDUC-3422	Educational Technology
EDUC-3723	Education of the Exceptional Child
EDUC-4013	Human Relations and Behavior Management
EDUC-4133	Critical Issues in Education
EDUC-4618	Student Teaching in the Elementary School

4. Foreign Language Competency

Options: choose one:

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

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

## **DEPARTMENT OF PHYSICAL EDUCATION**

### **B.S.E. Degree in Physical Education**

#### **42 hours, minor required**

The BSE degree in physical education is designed to prepare physical education teachers for elementary and secondary schools. Candidates will be able to teach physical education in PK-12 recreational, intramural, and varsity sports programs. Candidates will be able to teach health as a related area. Candidates will also be prepared for entering graduate study in physical education in order to continue professional growth. Strong emphasis is placed on teaching various types of motor activities for physically and mentally disabled persons.

#### **Degree requirements**

1. 22 hours physical education theory

A. 15 hours foundation courses

PHED-1113	Introduction to Sport, Wellness and Recreation
PHED-2213	Methods of Teaching Health and Physical Education in the Elementary Schools
PHED-3113	Kinesiology
PHED-3313	Tests and Measurements in Physical Education
PHED-4113	Organization and Administration of Physical Education

B. 2 hours minimum from any coaching methods course

PHED-3233	Theory of Coaching Basketball
PHED-3242	Theory of Coaching Volleyball
PHED-3252	Theory of Coaching Baseball and Softball
PHED-3262	Theory of Coaching Track and Field

C. 2 hours sports officiating

PHED-2612	Sports Officiating
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D. 3 hours adapted physical education chosen from

PHED-4313	Physical Education for the Exceptional Child
PHED-4513	Recreational Activities for the Handicapped

2. 13 hours health education

BIOL-2244	Human Anatomy and Physiology
PHED-2312	First Aid
PHED-2412	Care and Prevention of Athletic Injuries
PHED-2512	Wellness Concepts
PHED-4323	Physiology of Exercise

3. 7 hours activity courses are required. Sports Lab I and II

(PHED-2702 and 2712) must be taken as part of the 7-hour requirement. Transfer students who have 4 or more activity hours will be required to take only one of the Sports Labs.



The remainder of the 7 activity hours may be selected from the following:

- PHED-1301-1391 Intercollegiate Sports
- PHED-1611 Beginning Tennis
- PHED-1621 Advanced Tennis
- PHED-1811 Basketball Fundamentals
- PHED-1821 Golf
- PHED-1911 Badminton
- PHED-2511 Physical Fitness and Wellness
- PHED-421 Activity Practicum I
- PHED-431 Activity Practicum II
- PHED-441 Teaching the Handicapped Child

Varsity athletes who enroll in any of the intercollegiate sports that are offered for credit (1300 courses) will be allowed to count 2 hours per sport toward the 7 hours required to graduate with a B.S.E. degree.

4. B.S.E. Degree in PK-12 Physical Education  
(See requirements on page 80)

### **B.S. Degree in Sport, Wellness, and Recreation Management**

#### **60 hours, no minor required**

This degree program is designed for students who are preparing to work in the wellness, fitness, recreation, and sport professions. The major focuses on the role of wellness, sport, and recreation in everyone's life.

#### **Degree requirements**

1. 12 hours foundation courses
  - MGMT-3113 Principles of Management
  - PHED-1113 Introduction to Sport, Wellness, Recreation Management
  - PHED-4113 Organization and Administration of Sport Wellness, and Recreation Management
  - PHED-4613 Capstone Skills
2. 18 hours sport
  - PHED-2612 Sports Officiating
  - PHED-3233 Theory of Coaching Basketball
  - PHED-3242 Theory of Coaching Volleyball
  - PHED-3252 Theory of Coaching Baseball and Softball
  - PHED-3262 Theory of Coaching Track and Field
  - PHED-3272 Theory of Coaching Tennis and Golf
  - PHED-3282 Theory of Coaching Soccer
  - PHED-3293 Coaching Ethics and Sports Psychology
3. 15 hours wellness
  - BIOL-2033 Nutrition
  - PHED-2312 First Aid
  - PHED-2412 Care and Prevention of Athletic Injuries
  - PHED-2512 Wellness Concepts
  - PHED-3113 Kinesiology
  - PHED-4323 Physiology of Sport and Exercise
4. 13 hours recreation
  - PHED-2702 Sports Lab I
  - PHED-2712 Sports Lab II
  - PHED-4123 Recreational Leadership and Youth Sports
  - PHED-4213 Organization and Administration of Intramurals
  - PHED-4513 Recreational Activities for the Handicapped
5. 2 hours activity courses chosen from
  - PHED-1611 Beginning Tennis
  - PHED-1621 Advanced Tennis

- PHED-1811 Basketball Fundamentals
- PHED-1821 Golf
- PHED-1911 Badminton
- PHED-4211 Activity Practicum I
- PHED-4311 Activity Practicum II
- PHED-4411 Teaching the Handicapped Child

### **B.S.E. Degree in Secondary Education**

Major: Mathematics, Science, Social Studies

Licensure: Mathematics – Grades 6-12, Science – Grades 6-12, Social Studies – Grades 6-12

#### **Degree Requirements**

1. Major: See the respective departments for requirements in the major and suggested program.
2. Professional Education, 25 semester hours
  - EDUC-3121 Orientation to Teacher Education
  - EDUC-3122 The School in American Culture
  - EDUC-3213 Learning, Instruction and Assessment
  - EDUC-3422 Educational Technology
  - EDUC-3723 Education of the Exceptional Child
  - EDUC-4013 Human Relations and Behavior Management
  - EDUC-4133 Critical Issues in Education
  - EDUC-4718 Student Teaching in the Secondary Schools
3. 8 hours other courses
  - EDUC-4112 Reading in the Content Areas
  - PSYC-3523 Developmental Psychology
4. 3 semester hours of a methods course in the subject area
5. Foreign Language Competency
  - Choose one:
  - High School Foreign Language – 2 years of same language with a grade of "C" or better
  - University credit – 3 hours foreign language (including American Sign Language) with a grade of "C" or better.

### **B.M.E. Degree in PK-12 Education (For Teachers of Music)**

#### **Degree requirements**

1. Major: See the departments for requirements in the major and suggested programs.
2. 25 hours professional education
  - EDUC-3121 Orientation to Teacher Education
  - EDUC-3122 The School in American Culture
  - EDUC-3213 Learning, Instruction and Assessment
  - EDUC-3422 Educational Technology
  - EDUC-3723 Education of the Exceptional Child
  - EDUC-4013 Human Relations and Behavior Management
  - EDUC-4133 Critical Issues in Education
  - EDUC-4818 Student Teaching in the Elementary and Secondary Schools
3. 3 hours of psychology
  - PSYC-3523 Developmental Psychology
4. 4 semester hours of methods courses in the subject area:
  - Instrumental:
    - EDUC-4422 Elementary Music Methods
    - EDUC-4432 Secondary Instrumental Music Methods
  - Vocal:
    - EDUC-4422 Elementary Music Methods
    - EDUC-4442 Secondary Vocal Music Methods

5. Foreign Language Competency  
High School Foreign Language – 2 years of same language with a grade of “C” or better  
University credit – 3 hours foreign language (including American Sign Language) with a grade of “C” or better.

### **B.S.E. Degree in PK-12 Physical Education**

#### **Degree requirements**

1. Major: See the respective departments for requirements in the major and suggested programs.
2. 25 hours professional education
  - EDUC-3121 Orientation to Teacher Education
  - EDUC-3122 The School in American Culture
  - EDUC-3213 Learning, Instruction and Assessment
  - EDUC-3422 Educational Technology
  - EDUC-3723 Education of the Exceptional Child
  - EDUC-4013 Human Relations and Behavior Management
  - EDUC-4133 Critical Issues in Education
  - EDUC-4818 Student Teaching in the Elementary and

#### **Secondary Schools**

3. 3 hours psychology
  - PSYC-3523 Developmental Psychology
4. 3 hours methods
  - PHED-4413 Methods of Teaching Health and Physical Education in Sec. Schools
5. Foreign Language Competency  
Choose one:  
High School Foreign Language – 2 years of same language with a grade of “C” or better  
University credit – 3 hours foreign language (including American Sign Language) with a grade of “C” or better.

*Note: Transfer students who have taken major courses and/or professional education courses at institutions other than OC must have the courses approved as substitutions by the Chair of the School of Education. OC students who plan to take general education courses at another institution must have prior approval by the Chair of the School of Education; courses in the major and/or professional education may not be taken at another institution. OC university teacher education programs change when Oklahoma teacher education program/licensure requirements change.*

## **SCHOOL OF ENGINEERING**

### **DEPARTMENT OF MATHEMATICAL, COMPUTER, AND INFORMATION SCIENCES**

#### **COMPUTER SCIENCE**

##### **B.S. Degree in Computer Science 74 hours, no minor required**

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

1. Recognize the ethical and appropriate use of technology, and apply the theories and principles of Computer Science to effectively solve problems in a timely and cost-effective manner.

2. Exhibit the ability to adapt to new environments, apply research methodologies, and to learn independently.
3. Work effectively in a team environment, including the ability to describe complex ideas and logical arguments in a clear, concise manner using both written and oral communication.
4. Demonstrate a thorough knowledge of the liberal arts, and an ability to think, act, and communicate from a Christian worldview in all areas of life.

#### **Degree requirements**

1. 34 hours computer science and information systems core
- A. 24 hours lower division courses
  - CMSC-1003 Introduction to Information Technology
  - CMSC-1113 Programming I
  - CMSC-1123 Programming II
  - CMSC-2133 Object Oriented Programming
  - CMSC-2413 Introduction to Assembly Language
  - CMSC-2423 Introduction to File Processing
  - MATH-1623 Introduction to Discrete Mathematics
  - MATH-2913 Statistical Methods
- B. 10 hours upper division courses
  - CMSC-3243 Computers and Society
  - CMSC-3443 Computer Organization and Architecture
  - CMSC-4811 Seminar in Computer Science
  - ENGL-3493 Technical Writing
2. 31 hours specialized courses
  - A. 11 hours mathematics
    - MATH-2114 Calculus I with Analytical Geometry
    - MATH-2214 Calculus II with Analytical Geometry
    - MATH-3513 Linear Algebra
  - B. 18 hours computer science
    - CMSC-3233 Data Structures and Algorithm Analysis
    - CMSC-3423 Introduction to Computer Graphics
    - CMSC-4413 Operating Systems
    - CMSC-4223 Introduction to Computer Simulation
    - CMSC-4513 Programming Languages
    - CMSC-4713 Artificial Intelligence
  - C. 2 hours language
    - CMSC-2222 LISP
    - CMSC-2232 Prolog
    - CMSC-2242 FORTRAN
    - CMSC-2252 Ada
    - CMSC-2262 Java
    - CMSC-2272 COBOL
    - CMSC-2292 SmallTalk
    - CMSC-2302 Perl
    - CMSC-2332 C #
3. 9 hours any 3000/4000 computer science not used above

#### **INFORMATION SYSTEMS**

##### **B.S. Degree in Information Systems 79 hours, no minor required**

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

1. Apply essential financial, management, and marketing principles to effectively solve problems in a timely and cost-effective manner.

2. Recognize the ethical and appropriate use of technology to improve the business processes of an organization.
3. Exhibit the ability to adapt to new environments, apply research methodologies, and to learn independently.
4. Work effectively in a team environment, including the ability to describe complex ideas and logical arguments in a clear, concise manner using both written and oral communication.
5. Demonstrate a thorough knowledge of the liberal arts, and an ability to think, act, and communicate from a Christian worldview in all areas of life.

#### Degree requirements

1. 34 hours computer science and information systems core
  - A. 24 hours lower division courses
    - CMSC-1003 Introduction to Information Technology
    - CMSC-1113 Programming I
    - CMSC-1123 Programming II
    - CMSC-2133 Object Oriented Programming
    - CMSC-2413 Introduction to Assembly Language
    - CMSC-2423 Introduction to File Processing
    - MATH-1623 Introduction to Discrete Mathematics
    - MATH-2913 Statistical Methods
  - B. 10 hours upper division courses
    - CMSC-3243 Computers and Society
    - CMSC-3443 Computer Organization and Architecture
    - CMSC-4811 Seminar in Computer Science
    - ENGL-3493 Technical Writing
2. 3 hours mathematics
  - MATH-1213 College Algebra
3. 15 hours computer science
  - CMSC-2272 Business Application Programming (COBOL)
  - CMSC-4103 Data Communications and Networking
  - CMSC-4123 Introduction to Software Tools
  - CMSC-4214 Systems Analysis and Design
  - CMSC-4323 Database Processing
4. 6 hours any 3000/4000 Computer Science not used previously
5. 21 hours business
  - A. 6 hours accounting
    - ACCT-2113 Accounting Principles I
    - ACCT-2213 Accounting Principles II
  - B. 3 hours financial management
    - FINC-3313 Financial Management
  - C. 3 hours information systems
    - INFO-3113 Principles of Electronic Business
  - D. 6 hours management
    - MGMT-3113 Principles of Management
    - MGMT-3213 Operations Management
  - E. 3 hours marketing
    - MKTG-3313 Principles of Marketing

## MATHEMATICS

### **B.S. Degree in Mathematics** **52 hours, minor required**

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

1. Demonstrate a thorough knowledge of the foundational principles of analysis, algebra and geometry and be able to use standard problem-solving methods in a variety of contexts.

2. Exhibit the ability to adapt to new environments and advances in technology, apply research methodologies, and to learn independently.
3. Work effectively with others, including the ability to describe mathematical problems, solutions, proofs and logical arguments in a clear, concise manner using both written and oral communication.
4. Demonstrate a thorough knowledge of the liberal arts, living as a person of integrity with an ability to think, act, and communicate from a Christian worldview in all areas of life.

#### Degree Requirements

1. 15 hours lower division mathematics
  - MATH-2114 Calculus I with Analytical Geometry
  - MATH-2214 Calculus II with Analytical Geometry
  - MATH-2314 Calculus III
  - MATH-2913 Statistical Methods
2. 16 hours upper division mathematics
  - MATH-3013 Differential Equations
  - MATH-3313 Modern Algebra I
  - MATH-3513 Linear Algebra
  - MATH-3813 Modern Geometry
  - MATH-4113 Probability and Statistics I
  - MATH-4811 Seminar in Mathematics
3. 12 hours any 3000/4000 Math not used above
4. 9 hours electives
  - A. Mathematics courses numbered 1213 or higher
  - B. Any computer science course or a physics course numbered 2513 or higher

### **B.S. Degree in Mathematics/Computer Science** **72 hours, no minor required**

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

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

#### Degree requirements

1. 39 hours mathematics
  - A. 18 hours lower division mathematics
    - MATH-1623 Introduction to Discrete Mathematics
    - MATH-2114 Calculus I with Analytical Geometry
    - MATH-2214 Calculus II with Analytical Geometry
    - MATH-2314 Calculus III
    - MATH-2913 Statistical Methods
  - B. 21 hours upper division mathematics
    1. 9 hours required
      - MATH-3013 Differential Equations

MATH-3513 Linear Algebra  
 MATH-4113 Probability and  
 Statistics I

2. 12 hours elective courses numbered above 3000, including two of the following

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

2. 33 hours computer science

A. 21 hours required

CMSC-1003 Introduction to Information Technology  
 CMSC-1113 Programming I  
 CMSC-1123 Programming II  
 CMSC-2413 Introduction to Assembly Language  
 CMSC-2423 Introduction to File Processing  
 CMSC-3233 Data Structures and Algorithm Analysis  
 CMSC-3443 Computer Organization and Architecture

B. 11 hours electives

1. 6 hours any 3000/4000 computer science not used above
2. 5 hours selected from any computer science courses not used above
3. 1 hour mathematics or computer science seminar  
     MATH-4811 Mathematics Seminar  
     or  
     CMSC-4811 Computer Science Seminar

### **B.S.E. Degree in Mathematics Education 43 hours, minor required**

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

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

Degree requirements

1. 37 hours mathematics

A. 34 hours required

MATH-1623 Discrete Mathematics  
 MATH-2114 Calculus I with Analytical Geometry  
 MATH-2214 Calculus II with Analytical Geometry  
 MATH-2314 Calculus III  
 MATH-2913 Statistical Methods  
 MATH-3123 Mathematical Modeling and Strategies for

Secondary Teachers

MATH-3313 Modern Algebra I

MATH-3513 Linear Algebra  
 MATH-3813 Modern Geometry  
 MATH-4113 Probability and Statistics I  
 MATH-4811 Mathematics Seminar

B. 3 hours chosen from any 3000-4000 level mathematics course

2. 6 hours computer science

A. 3 hours required

CMSC-1113 Programming I

B. 3 hours electives chosen from

CMSC-1003 Introduction to Information Technology

CMSC-1123 Programming II

You must meet all the requirements for the B.S.E. Degree as well as education professional hours (see page 79). A second minor is strongly recommended for teaching in a second field.

## **ENGINEERING**

### **Academic Policies for OC Engineering**

#### **Engineering Programs and the Core Curriculum**

All engineering program degrees require 128 hours including the core curriculum. The following substitutions and options allow all components of the core curriculum to be satisfied within the 128 credit hours. Communication core requirements (ENGL-1123, COMM 1213, ENGL-2113) may be met by taking ENGL-1134 and by participating in the communication activities in the engineering degree program. For students exempt from ENGL-1123 due to CLEP, AP, or ACT scores, the Communication core requirement is met by taking COMM 1213 and by participating in the communication activities in the engineering degree program. CLTR-2913 may be used to meet the requirements for both Western Civilization and Fine Arts. BIBL-3443 may be used to meet the requirements for both Literature and for three hours of Bible. MISS 3513 may be used to meet the requirements for both Non-Western Civilization and for three hours of Bible. ENGR 3213 is used to meet the requirements for POLS-1213.

Core Curriculum for students graduating with a B.S.C.E., B.S.E.E., or B.S.M.E. degree in engineering (46 hours):

#### **Basic Skills (9 hours)**

1. SDEV-1101 Freshman Seminar (Engineering focused section)
2. ENGL-1134 Satisfies part of the requirement for Communication sequence; remainder of the requirement satisfied by communication activities in the engineering degree program
3. PHED-2511 Physical Fitness and Wellness
4. MATH MATH-1143 or higher

#### **Core Bible (16 hours)**

1. Choose 10 hours from the following textual Bible courses:
  - a. BIBL-1212
  - b. BIBL-1312
  - c. BIBL-2202
  - d. BIBL-2302
  - e. BIBL-4222
2. Choose 6 additional hours from the following (These 6 hours also satisfy Literature and Non-Western civilization.)
  - a. BIBL-3443



b. MISS-3513

### Basic Perspectives (18 hours)

1. American Citizenship, 6 hours  
(3 hours satisfied by ENGR-3213)
2. Behavioral Science, 3 hours
3. Literature and Fine Arts, satisfied by BIBL-3443 and CLTR-2913
4. Science, 6 hours
5. Global Civilization, 3 hours
  - a. Western Civilization satisfied by 3 hours of CLTR-2913
  - b. Non-Western Civilization satisfied by MISS-3513

### Integration Requirements (3 hours)

1. PHIL 4113

#### Engineering Program Requirements

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

To declare an engineering major (computer, electrical, mechanical or pre-engineering) and start engineering coursework, you must either have a math sub score on the ACT of at least 23 (or equivalent), or have successfully completed MATH 1213 with a "C" or better.

- You must complete all required math and science courses with a grade of "C" or better
- You must complete all prerequisites to ENGR, CENG, ELEC, and MECH courses with a grade of "C" or better
- You must maintain a 2.0 minimum major GPA (i.e. the GPA computed excluding core curriculum courses)
- You must sit for the state Fundamentals of Engineering exam prior to graduating (the discipline specific afternoon portion is required)

#### Policy for Students Transferring Into OC Engineering:

OC Engineering welcomes transfer students and will work on an individual basis to match the maximum amount of previous course work with OC graduation requirements without compromising the strength and value of an OC Engineering degree. To assure that transfer credits meet engineering accreditation standards, the Departments of Electrical and Computer Engineering and Mechanical Engineering use the following guidelines and process:

- All mathematics, science, computer science, and lower level, 1000 and 2000 level engineering science course credits must come from regionally accredited colleges and universities offering courses designed to provide background for baccalaureate degrees.
- Upper-division, 3000 and 4000 level, engineering credits must come from institutions offering ABET accredited engineering programs and will be evaluated on an individual basis.
- Courses completed at international colleges and universities where accreditation is not available will be evaluated on an individual basis.
- Courses from within a technology curriculum do not transfer. Courses taken outside a technology curriculum may transfer, but are subject to evaluation on an individual basis.
- Transfer credits with grades of less than a C in the following subjects will not count toward an OC engineering degree: the physical sciences, mathematics, computer science, engineering

science, and engineering.

- Students transferring into OC Engineering should submit their official transcripts to the Office of the Registrar for evaluation at least six weeks prior to the beginning of their first semester in OC Engineering.

### Master of Science in Engineering

The School of Engineering offers a Master of Science in Engineering (MSE) degree with specializations in mechanical engineering, electrical engineering, and computer engineering,

Undergraduates who are considering the MSE should attain an undergraduate engineering degree from an ABET accredited institution. Some consideration will be given to students with backgrounds from computer science, physics, or related fields.

For more information regarding graduate studies in the School of Engineering, contact Dr. Byron Newberry at (405) 425-5428 or at [byron.newberry@oc.edu](mailto:byron.newberry@oc.edu).

## DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

#### Program Educational Objectives:

The Department of Electrical and Computer Engineering consider its primary constituents to be threefold: industry, prospective students who are looking for an engineering education at a Christian university, and parents of these prospective students. Working with these constituents, we have set the following Program Educational Objectives:

Oklahoma Christian University graduates with an Electrical or Computer Engineering degree will use the talents God has given them to make a difference through

1. enjoying a successful career characterized by
  - a. keeping at the forefront of technology and adapting to changes in industry,
  - b. contributing effectively to any aspect of the engineering process, and
  - c. functioning well in the workplace as an integral member of a team
2. internalizing a personal faith in God that is exhibited by
  - a. consistent ethical behavior based on Christian principles,
  - b. an exemplary work ethic consistent with their Christian worldview, and
  - c. a stable life that balances career, family, church and community.

#### Admittance into Computer or Electrical Engineer Studies

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

1. Once admitted, you may take any ELEC or CENG course for which you have met the pre-requisites with a grade of "C" or better. Without admittance, you may only take CENG-3203

- Introduction to Microprocessors and CENG-3213, Computer Systems if you have the correct prerequisites.
- To be admitted, you must be currently enrolled in or have attained a grade of "C" or better in the required lower-division math, science, computer science and engineering science coursework for your program.
  - The department will communicate to those who meet the requirement before the pre-enrollment period of each spring semester.
  - Those that complete the requirements at a later time may petition the department chair or advisor to be reconsidered.
  - Admittance is conditional upon successively completing the in-progress courses with a grade of "C" or better.

### **B.S.C.E. Degree in Computer Engineering** **94 hours, no minor required**

The Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, (410) 347-7700.

#### **Degree Requirements**

- 24 hours mathematics
  - MATH-1623 Discrete Math
  - MATH-2114 Calculus I with Analytical Geometry
  - MATH-2214 Calculus II with Analytical Geometry
  - MATH-2314 Calculus III
  - MATH-3013 Differential Equations
  - ENGR-1113 Foundations in Engineering Mathematics
  - ENGR-2113 ECE Mathematics
- 6 hours science
  - PHYS-2513 Physics I
  - PHYS-2613 Physics II
- 2 hours science electives
  - CHEM-1314 General Chemistry for Engineers
  - CHEM-1115 General Chemistry I
  - CHEM-2111 Introduction to Forensic Science
  - PHYS-1811 Physics I lab
  - PHYS-1911 Physics II lab
- 27 hours engineering and computer science
  - CMSC-1113 Programming I
  - CMSC-1123 Programming II
  - CMSC-2283 Object Oriented Programming
  - CMSC-4413 Operating Systems
  - ENGR-1122 Engineering Computing
  - ENGR-1242 Engineering Fundamentals
  - ENGR-2544 Introduction to Digital Systems
  - ENGR-2614 Electrical Circuit Analysis
  - ENGR-3213 Engineering Economics
- 26 hours computer and electrical engineering
  - CENG-3113 Data Communications
  - CENG-3203 Intro to Microprocessors
  - CENG-3213 Computer Systems
  - CENG-3223 Embedded Systems Design
  - CENG-4732 Systems Design I
  - CENG-4743 Systems Design II
  - CENG-4753 Systems Design III
  - ELEC-3303 Introduction to Electronics
  - ELEC-3503 Discrete Time Linear Systems
- 9 hours minimum electives
  - CENG-4113 Network Systems Design

- CENG-4233 Advanced Computer Architecture
- CENG-4303 Integrated Circuit Design
- CENG-4813 Special Topics
- CMSC-3233 Data Structures
- CMSC-4123 Introduction to Software Tools
- CMSC-4214 Systems Analysis and Design
- ELEC-3313 Electronics
- ELEC-3403 Continuous Time Linear Systems
- ELEC-3523 Digital Signal Processing
- ELEC-3613 Electromagnetic Fields
- ELEC-4113 Communications Systems
- ELEC-4323 Electronic Devices
- ELEC-4423 Control Systems
- ELEC-4523 Real Time Signal Processing
- ELEC-4613 Radio Frequency Engineering
- ELEC-4813 Special Topics

With at least one of these being a computer engineering depth course

- CENG-4113 Network Systems Design
- CENG-4233 Advanced Computer Architecture
- CENG-4303 Integrated Circuit Design

### **B.S.E.E. Degree in Electrical Engineering** **94 hours, no minor required**

The Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, (410) 347-7700.

#### **Degree Requirements**

- 24 hours mathematics
  - MATH-1623 Discrete Mathematics
  - MATH-2114 Calculus I with Analytical Geometry
  - MATH-2214 Calculus II with Analytical Geometry
  - MATH-2314 Calculus III
  - MATH-3013 Differential Equations
  - ENGR-1113 Foundations in Engineering Mathematics
  - ENGR-2113 ECE Mathematics
- 6 hours science
  - PHYS-2513 Physics I
  - PHYS-2613 Physics II
- 2 hours science electives
  - CHEM-1314 General Chemistry for Engineers
  - CHEM-1115 General Chemistry I
  - CHEM-2111 Introduction to Forensic Science
  - PHYS-1811 Physics I Lab
  - PHYS-1911 Physics II Lab
- 18 hours engineering and computer science
  - CMSC-1113 Programming I
  - ENGR-1122 Engineering Computing
  - ENGR-1242 Engineering Fundamentals
  - ENGR-2544 Introduction to Digital Systems
  - ENGR-2614 Electrical Circuit Analysis
  - ENGR-3213 Engineering Economics
- 3 hours elective engineering and computer science
  - CMSC-1123 Programming II
  - ENGR-2433 Thermodynamics
- 32 hours electrical and computer engineering
  - CENG-3203 Intro to Microprocessors
  - CENG-3213 Computer Systems
  - ELEC-3303 Introduction to Electronics

- ELEC-3313 Electronics
- ELEC-3403 Continuous Time Linear Systems
- ELEC-3503 Discrete Time Linear Systems
- ELEC-3523 Digital Signal Processing
- ELEC-3613 Electromagnetic Fields
- ELEC-4732 Systems Design I
- ELEC-4743 Systems Design II
- ELEC-4753 Systems Design III

7. 9 hours minimum electives

- CENG-3113 Data Communications
- CENG-3223 Embedded Systems Design
- CENG-4113 Network System Design
- CENG-4203 Advanced Computer Architecture
- CENG-4303 Integrated Circuit Design
- CENG-4813 Special Topics
- ELEC-4113 Communications Systems
- ELEC-4323 Electronic Devices
- ELEC-4423 Control Systems
- ELEC-4523 Real Time Processing
- ELEC-4613 Radio Frequency Engineering
- ELEC-4813 Special Topics

With at least one of these being an electrical engineering depth course

- ELEC-4323 Electronic Devices
- ELEC-4523 Real Time Processing
- ELEC-4613 Radio Frequency Engineering

With at least one of these being an electrical engineering breadth course

- ELEC-4113 Communications Systems
- ELEC-4423 Control Systems

## DEPARTMENT OF MECHANICAL ENGINEERING

OC offers the Bachelor of Science in Mechanical Engineering. This program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone, (410) 347-7700.

Graduates from the OC mechanical engineering program will:

1. Possess a solid foundation in the technical knowledge and essential engineering competencies required to be adaptable and productive throughout their careers.
2. Demonstrate mastery of the essential workplace skills required to advance their careers through increasing levels of responsibility.
3. Understand the Christian worldview and value the broad education necessary for balanced lives of scholarship, leadership and service.

### **B.S.M.E. Degree in Mechanical Engineering** **94 hours, no minor required**

Degree requirements

1. 21 hours mathematics

- ENGR-1113 Foundations in Engineering Mathematics
- MATH-2114 Calculus I with Analytical Geometry
- MATH-2214 Calculus II with Analytical Geometry
- MATH-2314 Calculus III
- MATH-3013 Differential Equations

- ENGR-3023 Engineering Math

2. 11 hours science

- CHEM-1314 General Chemistry for Engineers
- PHYS-1811 Physics I Lab
- PHYS-2513 Physics I
- PHYS-2613 Physics II

3. 3 hours mathematics or science electives chosen from

- ENGR-4113 Engineering Applications of Partial Differential Equations

- MECH-4523 Finite Element Analysis

- MATH-3513 Linear Algebra

- MATH-3613 Numerical Analysis

- MATH-3813 Modern Geometry

- MATH-4113 Probability and Statistics II

- MATH-4313 Complex Variables

- BIOL-2114 Cellular Biology

- BIOL-3214 Environmental Health

- CHEM-1215 General Chemistry II

- PHYS-2713 Physics III

4. 2 hours programming required

- ENGR-1132 Procedural Programming

or

- CMSC-1113 Programming I

5. 21 hours engineering science

- ENGR-1252 Introduction to Solid Modeling

- ENGR-2313 Statics

- ENGR-2433 Thermodynamics I

- ENGR-2523 Dynamics

- ENGR-2533 Strength of Materials

- ENGR-2623 Mechanical Engineering Instrumentation

- ENGR-3213 Engineering Economics

- ENGR-3311 Experimental Mechanics

6. 30 hours mechanical engineering

- MECH-3443 Fluid Mechanics

- MECH-3453 Thermodynamics II

- MECH-3613 Engineering Materials and Manufacturing Processes

- MECH-3813 Mechatronics

- MECH-4133 Dynamic Systems and Controls

- MECH-4213 Machine Design

- MECH-4243 Heat Transfer

- MECH-4311 Thermal-Fluids Laboratory

- MECH-4732 Systems Design I

- MECH-4743 Systems Design II

- MECH-4753 Systems Design III

6. 6 hours technical electives chosen from

- MECH-4123 Machine Dynamics

- MECH-4233 Heating, Ventilating and Air Conditioning

- MECH-4513 Advanced Mechanics of Materials

- MECH-4523 Finite Element Analysis

- MECH-4533 Vibration Theory and Application

- MECH-4613 Tools and Management of Quality

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

## MINOR REQUIREMENTS

### SCHOOL OF BUSINESS ADMINISTRATION

The purpose of a minor program is to enable students to expand their educational horizons by focusing study in a particular field outside their majors. Therefore, the School of Business Administration offers the minor programs described below.

All business minors require the mini-core of 13 hours shown below, in addition to the courses specified for each of the minors. The mini-core courses should be completed before enrolling in the other courses required for the minor.

#### Business Mini-Core

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

#### Accounting Minor

- 19 hours required
- 1. 13 hours Business mini-core
- 2. 3 hours accounting
  - ACCT-2213 Accounting Principles II
- 3. 3 hours chosen from
  - ACCT-3113 Intermediate Accounting I
  - ACCT-3313 Cost Accounting
  - ACCT-3413 Income Taxation

#### Finance Minor

- 19 hours required
- 1. 13 hours Business mini-core
- 2. 3 hours finance
  - FINC-3313 Financial Management
- 3. 3 hours chosen from
  - FINC-3513 Money and Banking
  - FINC-3613 Investments

#### General Business Minor

- 19 hours required
- 1. 13 hours Business mini-core
- 2. 6 hours required courses
  - BUSA-4213 Business Law
  - INFO-3113 Principles of Electronic Business

#### International Business Minor

- 19 hours required
- 1. 13 hours Business mini-core
- 2. 3 hours finance
  - INTL-4123 International Finance
- 2. 3 hours chosen from
  - BUSA-4513 International Business
  - INTL-4413 International Management
  - INTL-4513 International Economics
  - INTL-4723 Global Marketing
  - INTL-4813 International Consulting and Development

#### Management Minor

- 19 hours required
- 1. 13 hours Business mini-core
  - MKTG-4613 Marketing Management
- 2. 6 hours chosen from
  - BUSA-3713 Contemporary Business Ethics
  - INFO-3113 Principles of Electronic Business
  - MGMT-3213 Production Operations Management
  - MGMT-4313 Organizational Behavior
  - MGMT-4513 Human Resource Management

#### Marketing Minor

- 19 hours required
- 1. 13 hours Business mini-core
- 2. 6 hours marketing chosen from
  - MKTG-3413 Consumer Behavior
  - MKTG-3513 Electronic Commerce and Online Marketing
  - MKTG-3713 Sales Management and the Sales Process
  - MKTG-4313 Promotional Strategies

### SCHOOL OF EDUCATION

#### Physical Education Minor

- 18 hours
  - 1. 8 hours required
    - PHED-1113 Introduction to Sport, Wellness and Recreation
    - PHED-2213 Methods of Teaching Health and Physical Education in the Elementary Schools
    - PHED-2412 Care and Prevention of Athletic Injuries
  - 2. 2 hours activity courses
  - 3. 8 hours electives from any Physical Education course
- Teacher education candidates may complete a Physical Education minor for an additional area of teacher licensure

#### Teacher Education

##### Professional Education Minor

- 18 hours
- 1. 10 hours required
  - EDUC-3122 School in American Culture
  - EDUC-3213 Learning, Instruction and Assessment
  - EDUC-3422 Educational Technology
  - EDUC-3723 Education of the Exceptional Child
- 2. 3 hours psychology
  - PSYC-3523 Developmental Psychology
- 3. 5 hours electives from
  - Education
  - Early Childhood Education
  - Elementary Education

Students wishing to pursue an Education minor must be approved by the Chair of the School of Education. A plan of study, as determined by the major advisor and the Chair of the School of Education, must be filed. Students must meet prerequisites as defined by the catalog. This is also the suggested course of study for students pursuing an Interdisciplinary Studies Degree.

#### Alternative Certification

The following requirements are for those persons who hold a bachelor's degree in the discipline in which the license is sought

18 hours



1. 10 hours required
  - EDUC-3122 School in American Culture
  - EDUC-3213 Learning, Instruction and Assessment
  - EDUC-3422 Educational Technology
  - EDUC-3723 Education of the Exceptional Child
2. 3 hours appropriate methods course
  - PSYC-352 Developmental Psychology
3. 5 hours of course work from the department that houses the licensure program. Exceptions may be granted through the approval of the Chair of the School of Education.

A student who has been denied admission to teacher education or who has lost admission status will not be approved for alternative certification.

### **Spanish Proficiency:**

Any candidate for teacher licensure may achieve a Spanish Proficiency by completing one of the following:

1. a minimum of 12 hours in Spanish or the equivalent of courses through Intermediate Spanish II
2. eighteen hours in Spanish or the equivalent of two courses beyond Intermediate Spanish II
3. four courses beyond novice-level proficiency. Additional requirements include field experience for immersion in the Spanish language (to be approved by advisor).

Students may earn six of the required 12 hours in Spanish while spending a full month immersed in the target language and culture. The proficiency is noted on the transcript, but has no effect on licensure.

## **SCHOOL OF ENGINEERING**

### **MATHEMATICS, COMPUTER SCIENCE, AND INFORMATION SYSTEMS**

#### **Computer Science Minor**

18 hours

1. 12 hours required
  - CMSC-1113 Programming I
  - CMSC-1123 Programming II
  - CMSC-2413 Introduction to Assembly Language
  - CMSC-2423 Introduction to File Processing
2. 6 hours may be chosen from computer science courses; at least 3 of those hours must come from courses numbered 3000 or above.

#### **Information Systems Minor**

18 hours

1. 16 hours required
  - CMSC-1003 Introduction to Information Technology
  - CMSC-1113 Programming I
  - CMSC-1123 Programming II
  - CMSC-4123 Introduction to Software Tools
  - CMSC-4214 Systems Analysis and Design
2. 2 hours may be chosen from
  - CMSC-2262 Java
  - CMSC-2272 COBOL
  - CMSC-2282 C++
  - CMSC-2302 Perl
  - CMSC-2312 Advanced C++

CMSC-2322 Visual Basic.NET

CMSC-2332 C#

#### **Mathematics Minor**

18 hours mathematics, including at least 6 hours numbered 3000 or above.

#### **Engineering Minor**

18 hours

1. 7 hours required
  - PHYS-2513 Physics I
  - MATH-2114 Calculus I with Analytical Geometry
2. 11 hours chosen from
  - Engineering Science, Computer Engineering, Electrical Engineering, Electrical Engineering courses or PHYS-1911.

## COURSE DESCRIPTIONS

While OC will attempt to offer every course when noted in the catalog, there will be times when a course may not be offered when noted in the catalog or when a course might be offered at a time other than when noted in the catalog. Students are advised to check each semester's course schedule and to confer with their advisors regarding particular courses.

### ACCOUNTING (ACCT)

#### 2113 ACCOUNTING PRINCIPLES I

Purpose of accounting, recording transactions, preparing financial statements, the use of special journals and general and subsidiary ledgers, introduction of accounting principles, accounting for a merchandising firm and payroll accounting. This course is normally offered every semester.

#### 2213 ACCOUNTING PRINCIPLES II

Prerequisite: ACCT-2113.

Continuation of Accounting Principles I. Partnership accounting, corporation accounting, additional accounting principles, analyzing and interpreting financial statements, development of management decision-making accounting data, introduction to cost accounting and cost-volume-profit analysis. This course is normally offered every semester.

#### 3113 INTERMEDIATE ACCOUNTING I

Prerequisite: ACCT-2213.

Study of accounting theory and assumptions underlying Generally Accepted Accounting Principles related to financial statements, generally, and current assets, specifically. Special consideration is given to pronouncements of the Financial Accounting Standards Board, the American Institute of Certified Public Accountants, the American Accounting Association and the Securities and Exchange Commission. This course is normally offered fall semester.

#### 3213 INTERMEDIATE ACCOUNTING II

Prerequisite: ACCT-3113.

Continuation of Intermediate Accounting I. Study of Generally Accepted Accounting Principles related to plant assets, liabilities and capital, financial statement analysis, price level accounting, and leasing transactions. This course is normally offered spring semester.

#### 3313 COST ACCOUNTING

Prerequisite: ACCT-2213. (For accounting majors)

The development of cost and accounting data for internal use in planning, control and decision making by managers. Topics and techniques studied are job-order and process cost accounting; accounting for materials, labor and factory overhead costs; standard cost accounting; payroll; budgeting; responsibility accounting; cost-volume-profit analysis and direct costing. This course is normally offered spring semester.

#### 3323 MANAGERIAL ACCOUNTING

Prerequisite: ACCT-2213. (For non-accounting majors.)

Study of the use of cost accounting data as a tool for planning, control and decision making by managers. Topics studied include the nature of costs and their behavior; design of job-order and process cost accounting systems; cost-volume-profit relationships and profit planning; segmented reporting; comparison of direct costing with absorption costing; control of operations through standard costs and flexible budgets; pricing of products and services; relevant costs for decision-making and capital budgeting. This course is offered as needed.

#### 3413 INCOME TAXATION

Prerequisite: ACCT-2213.

An introduction to the federal income tax, considering income, deductions, payment of tax and other matters relating to personal income tax returns. This course is normally offered fall semester.

#### 3513 ADVANCED FEDERAL TAXATION

Prerequisite: ACCT-3413.

A continuation of the study of the federal income tax as it relates to corporations, partnerships and fiduciaries. Also included is the study of more specialized income tax problems and the federal Social Security, estate and gift taxes. This course is normally offered spring semester.

#### 3713 ACCOUNTING INFORMATION SYSTEMS

Prerequisite: ACCT-2213.

Concepts underlying the analysis, design, use, control and audit of accounting information systems. The flow of accounting information through computerized information systems is emphasized. This course is offered as needed.

#### 4113 ADVANCED ACCOUNTING I

Prerequisite: ACCT-3113.

A study of the application and theory of budgetary and fund accounting, with emphasis on governmental and not-for-profit entities. Other specialized accounting applications involving foreign operations and partnership accounting are also examined. This course is normally offered fall semester.

#### 4213 ADVANCED ACCOUNTING II

Prerequisite: ACCT-3113.

A study of advanced accounting problems related to consolidations, mergers, acquisitions, branch operations, segment reporting, interim reporting and the Securities and Exchange Commission. This course is normally offered in the spring semester.

#### 4313 ADVANCED COST ACCOUNTING

Prerequisite: ACCT-3313.

Additional study in the development of cost and managerial accounting data for use in planning, control and decision making by managers. The course includes the use of such tools as linear regression, simulation and linear programming, and it also covers capital budgeting, segment performance and decision-making behavior under uncertainty. This course is normally offered in the spring semester.

#### 4413 AUDITING

Prerequisite: ACCT-3113.

Preparation toward a professional accounting career as a Certified Public Accountant in examining and rendering professional opinions on the fairness of organizations' financial statements. The course emphasizes the nature of auditing, internal control systems, auditing techniques and evidence, audit working papers and reports and professional ethics and independence. This course is normally offered in the fall semester.

#### 4423 ETHICS AND AUDITING CONCEPTS

Prerequisite: ACCT-4413.

A continuation of the study of auditing, with emphasis given to internal, operational and compliance auditing, audit risk analysis and in-depth case analysis. Case studies are used for research and instructional purposes. This course is normally offered in the spring semester and summer.

#### 4433 INCOME TAX PLANNING AND RESEARCH

Prerequisite: ACCT-3513.

A specialized study in the areas of tax planning and research. Emphasis is given to legal ways to minimize tax liability through yearly planning, elections and deferral of income. Extensive computerized tax research is performed to aid in tax planning. This course is offered as needed.

#### 4513 FINANCIAL ACCOUNTING THEORY AND PRACTICE

Prerequisite: ACCT-3213.

An in-depth study of contemporary accounting theory with primary emphasis on the pronouncements of the Financial Accounting Standards Board. The main objective is to gain deeper insights into the theory and critical analysis underlying Generally Accepted Accounting Principles and to apply them to financial statement preparation. Study centers on selected parts of the following FASB pronouncements: (1.) statements of Financial Accounting Standards, (2.) interpretations of ARBs, APB Opinions and FASB Statements of Standards, (3.) technical bulletins, and (4.) statements of Financial Accounting Concepts. This course is normally offered in the spring semester.

#### 4900 INDEPENDENT STUDY IN ACCOUNTING

Assigned readings, reports and research projects based on the needs of the student. A maximum of 3 hours may be counted toward major. 1-3 semester hours; 50 hours work required for each hour of credit earned, with a maximum of 3 credit hours. This course is offered as needed.

#### 4990 INTERNSHIP IN ACCOUNTING

Prerequisites: admission to School of Business Upper Division, completion of ACCT-3113 and approval of the advisor and dean. Supervised and approved accounting internship with firm or organization; written and oral reports are required along with employer evaluation. (Variable credit) This course is offered as needed.

### ART AND DESIGN (ARTS)

#### 1103 TECHNOLOGY FOR GRAPHICS

An introduction to the use of computer hardware, software, and peripherals for the production of visual images. Students research and practice computer operations and produce digital visuals using both painting and drawing software applications. This course is normally offered every semester.

#### 1113 FUNDAMENTALS OF DRAWING

An introduction to the fundamental approaches to drawing with attention given to the concepts and processes that constitute the language of visual expression. This course is normally offered in the fall semester.

#### 1213 FIGURE DRAWING

A study of the human form with attention given to the concepts and processes that constitute the language of visual expression. This course is normally offered in the spring semester.

### **1413 ELEMENTS OF VISUAL THINKING**

A study of the elements of art. Studio work includes two-dimensional experimentation and exercises that nurture creative visual expression, which integrate critical discourse through the development of the language of art and design. This course is normally offered in the spring semester.

### **1623 INTRODUCTION TO INTERIOR DESIGN**

An overview of the interior design profession and an introduction to basic graphic communication skills, including hand drafting, with experiences in observing professional designers, producing scaled drawings of floor plans, and application of the elements and principles of design. This course is normally offered in the fall semester.

### **1643 INTERIOR TEXTILES, MATERIALS AND FINISHES**

A study of interior textiles (fabrics and upholstery). Fabric content, properties, construction process, dyeing, and printing are examined. Basic building materials (wood, glass, metal, masonry, etc.) as well as wall coverings and hard floor treatments and their properties and uses will be addressed. Students will learn through case studies and examples to measure and figure correct amounts of materials to order. This course is normally offered in the spring semester.

### **1653 COMPUTER AIDED DESIGN**

Prerequisites: ARTS-1623, permission of instructor.

Use of software (Auto-CAD) in the creation of two-dimensional representation of built forms and spaces for interiors. This course is normally offered in the spring semester.

### **2123 RENDERING IN PERSPECTIVE**

Prerequisites: ARTS-1623 and ARTS-1643.

A study of rendering materials, methods and techniques and how they relate to a 1-, 2-, 3-point perspective. The course will explore color theory as well as shade and shadow elements as they are used with various mediums such as marker, colored pencil, ink and mixed mediums. Advanced problems in rendering and visual presentation are explored throughout the course. This course is normally offered in the spring semester.

### **2223 INTRODUCTION TO COMMUNICATION DESIGN**

Prerequisites: ARTS-1103 and ARTS-1413.

An introduction to the advertising, graphic design and new media industry. Studio work includes print media design and graphic design with directed outcomes based upon research, strategy-based conceptualization, and execution. This course is normally offered in the fall semester.

### **2243 INTERACTIVE MEDIA DESIGN I**

Prerequisite: ARTS-1413.

Introduction to the aesthetic and technical concerns of interactive media production: human-computer interactivity, Website design and development, usability issues, and dynamic narrative. Students design, produce, and deploy interactive projects. This course is normally offered in the spring semester.

### **2233 TYPE AS VISUAL LANGUAGE**

Prerequisites: ARTS-2223 and ARTS-2323.

A study of letterforms and fundamental typographic principles. Studio work includes typographic expression and communication with and without image and its relationship to message and purpose. This course is normally offered in the spring semester.

### **2323 DIGITAL DESIGN FOR PRINT**

Prerequisites: ARTS-1103 and ARTS-1413.

Use of digital design tools for the production of single-page and multi-page printed documents: print advertising, marketing, and stylized content delivery. This course is normally offered in the fall semester.

### **2403 DIGITAL PHOTOGRAPHY**

Prerequisites: ARTS-1103 and ARTS-1413.

A study of digital photography in the creation of visual images for all media including print, broadcast and new media with special attention to producing photographs that are enhanced by computer software. The student will need to own, or have access to, a camera with manual override. This course is normally offered in the spring semester.

### **2513 PAINTING I**

Prerequisites: ARTS-1113 and ARTS-1413 or permission of instructor.

A study of materials, techniques and concepts fundamental to painting. The course encourages students to originate and produce a portfolio of paintings experimenting with various processes and historical ideas. This course is normally offered in the spring semester.

### **2523 FORM & COMMUNICATION**

A study of the elements of art and their supportive elements. Studio work includes three-dimensional experimentation and exercises that relate ideas, objects, material, and space, with form studies that examine organic and constructed elements. This course is normally offered in the fall semester.

### **2623 RESIDENTIAL INTERIOR DESIGN**

Prerequisites: ARTS-1113, ARTS-1413, ARTS-1623 or concurrent enrollment.

A study of residential design with emphasis on kitchen and bath planning. This course is normally offered in the spring semester.

### **2653 SPACE PLANNING AND SYSTEMS FURNITURE**

Prerequisites: ARTS-1623, ARTS-1653.

A study of the application of human factors, space standards and space planning principles to residential and commercial environments. This course is normally offered in the fall semester.

### **2663 ARCHITECTURAL GRAPHICS**

Prerequisites: ARTS-1643

Further development of drafting skills with emphasis on hand lettering, dimensioning, materials delineation of floor plans, drawing elevations, sections and perspectives. This course is normally offered in the fall semester.

### **2743 3D MODELING AND ANIMATION I**

Creation of virtually-real objects and environments. Students use the computer to model, texture, light, render, and animate dynamic objects and scenes in digital three-dimensional space. This course is normally offered in the spring semester.

### **3033 CHRISTIAN AESTHETICS IN THE VISUAL ARTS**

Prerequisite: Junior or Senior Standing.

A seminar course addressing a Christian response to contemporary cultural issues in the visual arts.

### **3113 PRINTMAKING: INTAGLIO AND RELIEF**

Prerequisites: ARTS-1213 and ARTS-1413.

Designed to introduce you to the tools, history, and basic techniques of printmaking through the use of the etching press. Etching, drypoint, collograph, relief, and monotype techniques will be discussed. Students are encouraged to explore the problems and concerns of their own images technically through multiples and one-of-a-kind prints. A series of critiques, group discussions, research and information gathering assignments, lectures and demonstrations complement studio work. This course is normally offered in the fall semester.

### **3123 PRINTMAKING: SERIGRAPHY**

Designed to introduce you to a survey of screen-printing techniques including hand-cut, painted and photographic stencils and multi-color printing. This course is an introduction examination of water-based serigraphic techniques, concentrating in process and aesthetic development. Monotype and monoprint techniques will also be discussed. A series of critiques, group discussions, research and information gathering assignments, lectures and demonstrations complement studio work. This course is normally offered in the spring semester.

### **3163 ANIMATION PRINCIPLES & PRACTICES**

Prerequisite: ARTS-2243, Junior or Senior standing.

History, theory, and technique of traditional and contemporary approaches to animation. Includes studies in fundamentals of digital storytelling, physics, animation aesthetics, expression, kinetics, and motion. Projects include work in digital 2D and 3D, stop-motion, rotoscoping, and other animation environments. This course is normally offered in the fall semester.

### **3173 3D MODELING AND ANIMATION II**

Prerequisite: ARTS-2743.

In this course students will study and practice techniques used in character design, modeling and rigging using 3D computer software. Advanced 3d modeling, shading, rendering, and character-design skills are developed in conjunction with traditional story, animation, lighting, and cinematography methods. Designs for game animation will be compared with designs for film and video. Action and motion sequences will be created and studied. This course is normally offered in the fall semester.

### **3213 PAINTING II**

Prerequisite: ARTS-2513.

A further study of the techniques and processes of painting with special attention to the development of the student's direction and portfolio development. This course is normally offered in the spring semester. This course is normally offered in the spring semester.

### **3243 GRAPHIC DESIGN**

Prerequisite: ARTS-2233.

A study of integrating message, typography, and image through conceptual innovation. Studio work includes necessary vehicles for information, narrative, promotion, and marketing. This course is normally offered in the fall semester.

### **3253 PRINT MEDIA DESIGN**

Prerequisite: ARTS-3243.

A study of merging written messages with design. Studio work includes media bought print applications with ancillary forms of design communication. This course is normally offered in the fall semester.

### **3263 ADVANCED GRAPHIC DESIGN**

Prerequisite: ARTS-3243.

A further study of blending messages and content with design and application. Studio work is a continuation of necessary vehicles for information, narrative, promotion, and marketing, sometimes in relation to integrated design through several platforms of communication. This course is normally offered in the spring semester.

### 3333 HISTORY OF DESIGN

A comprehensive chronological survey of the impact and transformation of design upon Western civilization. Ideas and changes are explored through disciplines such as graphic design, industrial design, product design, photography, architecture, furniture and fashion. This course is normally offered in the spring semester.

### 3343 ANCIENT TO MODERN ART HISTORY

A focus on the pivotal artists, movements and concepts from each era. Art, as it has been shaped by cultural, social, political and economic factors will be examined in a chronological study from pre-history to mid-twentieth century. This course is normally offered in the fall semester of even-numbered years.

### 3353 CONTEMPORARY ART

A chronological study of modern art from 1945 to the present. In-depth study will be on the many artists, movements, critical theories, cultural conditions and global issues that have shaped art of the modern and postmodern age. This course is normally offered in the fall semester of odd-numbered years.

### 3363 PHOTOGRAPHY I

Prerequisite: ARTS-2403.

Course will focus on production of portfolio /exhibition quality photographic images. Students will work in a digital format with an emphasis on developing /exploring personal direction in fine art photography. This course is normally offered in the fall semester.

### 3373 PHOTOGRAPHY II

Prerequisite: ARTS-3363.

Course will offer student further development of their personal fine art photographic projects. Emphasis will be on production of exhibition /portfolio quality digital photographic work. This course is normally offered in the spring semester.

### 3443 INTERACTIVE MEDIA DESIGN II

Prerequisite: ARTS-2243

Study of interactive design and further exploration into production capabilities of industry standard web authoring software. Topics include: dynamic content, file management, internet typography, development of user interfaces, site maps, external web functionality and trouble-shooting. This course is intended for designers who wish to consolidate and apply their prior knowledge and skills of interactive design. This is a culminating experience and designers are expected to demonstrate sophisticated interactive design decisions and produce final works that demonstrate a high level of expertise and achievement. This course is normally offered in the fall semester.

### 3513 GRAPHIC ARTS PRODUCTION

Prerequisite: ARTS-3263.

An introduction to a basic understanding of preparing art for reproduction through textbook material, lectures and an internship. This course is normally offered in the summer.

### 3523 ILLUSTRATION I

Prerequisites: ARTS-2523.

A study of materials, techniques, processes and ideas fundamental to the discipline of illustration, with special attention to creating selected works for editorials, posters, covers and collateral materials. This course is normally offered in the fall semester.

### 3533 HISTORIC INTERIOR DESIGN, (ANTIQUITY TO 1850)

Prerequisites: ARTS-1113 and ARTS-1623.

A study of decorative arts, furniture and interiors as they have evolved from ancient Egypt to the industrial revolution. Emphasis is given to the ways ancient motifs and decorative designs have been continually repeated and used from the original historic periods to the present. This course is normally offered in the fall semester of even-numbered years.

### 3613 INTERIOR SYSTEMS

Prerequisites: ARTS-1623 and ARTS-1653.

A study of interior lighting design, acoustics and HVAC (heating, ventilation and air conditioning) systems. A lighting project is assigned to help students learn how to use electrical and lighting symbols and how to write a lighting schedule. The course also covers natural energy sources with attention to insulation techniques and the structural types of passive-solar and earth-sheltered. This course is normally offered in the fall semester.

### 3623 COMMERCIAL DESIGN I

Prerequisites: ARTS-1643 and ARTS-2653.

A study of contract/commercial design and space planning principles. Projects involve public or business spaces, with barrier-free design principles included. Drafting and presentation skills are further reinforced. This course is normally offered in the fall semester.

### 3633 CONTEMPORARY INTERIOR DESIGN

(1850 TO PRESENT)

Prerequisite: ARTS-1623.

A study of design movements affecting furniture and interiors from 1850 to present, emphasizing the evolution in design concepts and philosophies of eminent architects and designers. The Function Complex theory and the design process are investigated. This course is normally offered in the spring semester of odd-numbered years.

### 3643 COMMERCIAL DESIGN II

Prerequisite: ARTS-3623.

A study of non-residential interiors with an emphasis on programming, light safety and building codes, barrier-free design and space and activity planning of the interior environment. This course is normally offered in the spring semester.

### 3773 THE BUSINESS OF BRANDING YOURSELF

Prerequisite: Junior standing.

A study directed to the challenges of seeking employment in creative industries after graduation, establishing a business, and developing healthy professional and personal finance practices. This course is normally offered in the spring semester.

### 4213 PAINTING III

Prerequisite: ARTS-3213.

Advanced painting course emphasizing the production of finished portfolio with preparation of student's senior exhibition. This course is normally offered in the spring semester.

### 4223 GAMING AND ANIMATION

Prerequisites: Senior standing and permission of instructor.

Students participate in the new media production process for design and development of client driven projects in a team environment. This course is normally offered in the fall semester.

### 4253 INTEGRATED MARKETING DESIGN

Prerequisite: ARTS-3253.

A study of integrating various vehicles of communication into a single message. Studio work includes advertising, graphic design and new media design to market a product, service or idea based upon research and strategy-based concepts. This course is normally offered in the spring semester.

### 4523 ILLUSTRATION II

Prerequisite: ARTS-3523.

An advanced illustration studio class that concentrates on producing and refining a body of work to augment the student's portfolio. Continued focus on traditional vehicles of illustration such as editorials, posters, and collateral materials and exploration of non-traditional approaches to the illustration medium. This course is normally offered in the spring semester.

### 4613 INTERIOR DESIGN PROFESSIONAL PRACTICES AND PORTFOLIO

A history and introduction of interior design career management focusing on professional responsibilities, professional organizations, management of office processes, client relationships and overview of establishing and organizing a business. This course is normally offered in the spring semester.

### 4633 SENIOR INTERIOR DESIGN STUDIO

Prerequisite: Senior standing.

Designing interior solutions related to non-residential interiors. This senior-level course will also survey business procedures, contract services and administration and preparation for job market entry as applied to the practice of Interior Design and will culminate with a portfolio presentation to a panel of professionals. This course is normally offered in the fall semester.

### 4643 SENIOR EXHIBIT

Prerequisite: Senior standing and instructor's permission.

A showing of visual works developed over the course of the student's college years. This exhibit and reception are the culmination of the student's collegiate experience. This course is offered as needed.

### 4810 GRAPHIC DESIGN INTERNSHIP

Prerequisite: ARTS-3243.

An internship with an advertising agency or graphic design studio. 1 credit hour for every 50 hours the student works, not to exceed 3 credit hours per semester. This course is offered as needed.

### 4820 INTERIOR DESIGN INTERNSHIP

Prerequisite: Junior or Senior standing.

An internship with a residential or commercial design firm. (1 credit hour for every 50 hours of student work, not to exceed 3 credit hours per semester.) This course is offered as needed.

### 4830 ART INTERNSHIP

Prerequisite: Junior or Senior standing.

An internship with a gallery, museum, theme park, theater production company, frame shop or art supply company. 1 credit hour for every 50 hours the student works, not to exceed 3 credit hours per semester. This course is offered as needed.

### 4840 GAMING AND ANIMATION INTERNSHIP

Prerequisite: Permission of instructor.

An internship with a new media department. (1 credit hour for every 50 hours the student works, not to exceed 3 credit hours per semester.) This course is offered as needed.



#### **4900 INDEPENDENT STUDY**

Prerequisites: Junior or Senior standing and permission of instructor.  
Provides opportunity for the well-qualified student to do supervised individual work in an area of special interest. Either art history or studio areas may be chosen. (1-3 hours) This course is offered as needed.

## **BIBLE (BIBL)**

#### **1103 INTRODUCTION TO THE BIBLE I**

Prerequisites: permission of instructor.  
Introduces students who have little or no familiarity with the Bible or the Christian faith to the basic message, concepts and characters. The course, along with Introduction to the Bible II, prepares students to enter the regular core Bible curriculum the following year. This course is normally offered in the fall semester.

#### **1203 INTRODUCTION TO THE BIBLE II**

Prerequisite: permission of instructor.  
This course is a continuation of BIBL-1103 and is also intended for students with little or no familiarity with the Bible. Students will continue learning the basic message, concepts and characters of the Bible. This course is normally offered in the spring semester.

#### **1212 LIFE OF CHRIST: MATTHEW**

A study of the life and teachings of Jesus as set forth in Matthew. Special attention is given to the deity of Jesus, His miracles, His teachings, especially focusing upon the Sermon on the Mount, His death and His resurrection. This course is normally offered in the fall semester.

#### **1312 LIFE OF THE EARLY CHURCH: ACTS**

A study of the establishment and growth of the early church. Emphasis is placed on the major Christian doctrines taught in the first century and the application of those doctrines to the life of the early church. This course is normally offered in the spring semester.

#### **2202 STORY OF THE OLD TESTAMENT**

Begins with a survey of periods of Bible history to provide a structure to connect the Bible story from creation through redemption by Christ and the early history of the church. The course develops the first twelve periods which cover the Old Testament. This study considers essential scripture texts in each period, principles in interpreting these scriptures, and related history and archaeology. This course is normally offered in the fall semester.

#### **2302 STORY OF THE NEW TESTAMENT**

Follows Story of the Old Testament and develops the last three periods of Bible history: intertestamental, life of Christ and history of the early church. The course also studies briefly the history of the church since the end of the first century, including both the Reformation Movement and the Restoration Movement. The course also discusses important current issues in the church. This course is normally offered in the spring semester.

#### **2312 EVIDENCES OF CHRISTIANITY (APOLOGETICS)**

A study of the evidences for the existence of God and Christ as God's supreme revelation. Emphasis is given to providing a modern case for the existence of the God of the Bible. Non-textual. This course is normally offered in the fall semester.

#### **2512 PERSONAL EVANGELISM**

Includes the methods and approaches for doing personal Bible instruction along with intensive study on the biblical issues that typically arise in doing such studies. Non-textual. (Same as RLED-2512.) This course is normally offered every semester.

#### **2713 INTRODUCTION TO MINISTRY**

Introduces the ministerial student to Christian ministry in general, with special emphasis on the ministries of pulpit, religious education, and youth. Study focuses on the biblical basis for ministry, management skills, people skills and personal growth. Reading and writing assignments allow the student to emphasize the ministry of choice. Non-textual. This course is normally offered in the fall semester.

#### **3002 GENESIS AND EXODUS**

A study of God's work in creation and in establishing his eternal plan of salvation. The following subjects are covered: the biblical account of creation with a study of alternate beliefs such as the theory of evolution; science and faith; the nature of man; temptation and fall; the flood; the call of Abraham and the beginning of the Israelites; the doctrine of divine election; the bondage and the exodus; the Ten Commandments and basic morality; type and ante type of the tabernacle. This course is normally offered in the spring semester of odd numbered years.

#### **3003 VOCATIONAL MINISTRY**

A study of issues pertaining to Christian service on the part of those who are not engaged in full-time paid ministry, whether in domestic or foreign mission contexts. Emphasis will be placed on applying diverse gifts and talents in a variety of fields of endeavor for the purpose of building and strengthening the Lord's church worldwide. Non-textual. This course is normally offered in the fall semester of odd numbered years.

#### **3013 HERMENEUTICS**

Prerequisite: BIBL-2203.  
A study of the valid rules and principles governing correct biblical exegesis and application. The course is designed to lead the student into a better understanding of how to make applications of biblical teachings and principles. This course is normally offered spring semester.

#### **3102 I CORINTHIANS**

A thorough analysis of Paul's epistle to the church at Corinth. Special emphasis is given to the problems faced by Christianity in a pagan center and to the application of Christian principles in solving various disorders in conduct and doctrine in a local church. This course is normally offered in the spring semester of even numbered years.

#### **3113 THE NEW TESTAMENT CHURCH**

A study of the sociological characteristics of the first century church with special attention to various New Testament letters and to the Gospels' descriptions of the church's organization, mission work, worship and destiny. Non-textual. This course is normally offered in the spring semester of even numbered years.

#### **3143 THE SCIENTIFIC CHRISTIAN**

Prerequisites: Junior or Senior standing, science or engineering major, or permission of instructor.  
Especially designed to help science majors who are Christians explore the relationship between faith and science. Many Christian college graduates who are trained in the sciences and are also active church members report that people seem to expect them to be able to answer all the hard questions about science and Christianity. This course is not designed to answer all the hard questions, but it is designed to assist Christians in thinking about their own responses to them. This course is normally offered in the fall semester of even numbered years.

#### **3153 CHURCH GROWTH**

A study of the dynamics involved in planting, sustaining, and reproducing growing churches. Emphasis is given to various factors that affect quantitative, qualitative and organic church growth. (Same as MISS-3213.) Non-textual. This course is normally offered in the fall semester of even numbered years.

#### **3173 CHURCH HISTORY TO 1517**

A comprehensive historical survey of the Christian religion from its beginning to the 16th century Reformation. Special emphasis is given to the nature of the early church, later doctrinal controversies, papal development and outstanding personalities of this period. (Same as HIST-3173.) Non-textual. This course is normally offered in the fall semester of even numbered years.

#### **3183 CHURCH HISTORY 1517 TO PRESENT**

A continuation of BIBL-3173 dealing with Christian history from the sixteenth-century Reformation to the present, with emphasis on the nineteenth-century Restoration Movement in America. (Same as HIST-3183.) Non-textual. This course is normally offered in the spring semester of even numbered years.

#### **3203 BIBLICAL EXEGESIS**

Prerequisite: ENGL-2113  
A study of important tools and methodologies for better understanding of the Bible. Includes the basics of exegesis so students can do serious research. This course is normally offered in the fall semester.

#### **3213 THE PENTATEUCH**

An intensive study of the first five books of the Old Testament, with emphasis on key theological themes: creation, sin, God's promises to Abraham, liberation, and the purpose of the Law. This course is normally offered in the fall semester.

#### **3222 RELIGIOUS EDUCATION OF CHILDREN**

A study of the age characteristics, motivational principles, learning methods and curriculum for teaching the Bible to children from birth to age 12. (Same as RLED-3222 and YTMN-3222.) This course is normally offered every semester.

#### **3223 GALATIANS, I AND II THESSALONIANS**

A thorough analysis of three important Pauline epistles. Special attention is given to the relation of Christianity to the Law of Moses and to the second coming of Christ. This course is normally offered in the spring semester.

#### **3233 I AND II TIMOTHY, TITUS**

A thorough study of the epistles of Paul to Timothy and Titus with special emphasis on the historical occasion that prompted these letters. Among the issues covered are the qualifications of church leaders, social-ethical obligations of Christians and roles in public assemblies. This course is normally offered in the spring semester.

#### **3243 OLD TESTAMENT PROPHETS: 7TH TO 5TH CENTURY**

An introduction to Israel's prophets who lived during the seventh, sixth and fifth centuries. Emphasis will be given to the historical setting and message of each prophet, with special attention to the relevance of these messages for today. This course is normally offered in the fall semester of odd numbered years.

**3313 JAMES TO JUDE**

Designed to acquaint the student with the specific content and principles for Christian living found in the General Epistles of the New Testament. This course is normally offered in the fall semester.

**3413 CHRISTIAN FAMILY**

Prerequisite: Junior or Senior standing.

A study of marriage, with emphasis on the characteristics of a Christian family. Special attention is given to communication, financial management, conflict resolution, sexuality, and biblical teaching on marriage. Non-textual. This course is normally offered every semester.

**3422 MARRIAGE DEVELOPMENT**

A laboratory class designed to assist first-year married couples in diagnosing and intervening in the areas of their marriage that most need strengthening. Because a spiritual foundation is essential to any successful marriage, special attention is given to that area. For married couples only. Non-textual. This course is normally offered in the fall semester.

**3423 ARCHAEOLOGY AND THE NEW TESTAMENT**

A study of the archaeological findings and site locations that are related to New Testament history and interpretation. Textual or Non-textual. This course is normally offered in the spring semester.

**3433 ARCHAEOLOGY AND THE OLD TESTAMENT**

A study of site locations and archaeological locations in Bible lands for greater understanding of the Old Testament. Textual or Non-textual. This course is normally offered in the fall semester.

**3443 BIBLE AS LITERATURE**

In this course students will exam the Bible not only as God's inspired word, but also as a literary text. Critiques and analyses from biblical scholars and scholars of literature will be explored. In addition, students will write about biblical texts paying attention to the literary details in these texts. Same as BIBL-3443. This course is normally offered in the spring semester.

**3453 PERSONAL AND FAMILY FINANCE**

This course is designed to help individuals and families learn the basics of managing their finances in a biblical way. Topics covered in this class include: budgeting, investing, insurance, buying your own home, and teaching your children about money. (Same as FMST-3453.) This course is normally offered every semester.

**3512 PRISON EPISTLES**

A study of the historical background and the contents of Ephesians, Philippians, Colossians and Philemon. Emphasis is given to each epistle's outstanding teachings and practical value. This course is normally offered in the fall semester of odd numbered years.

**3573 PSYCHOLOGY OF RELIGION**

A study of the relationships between social dynamics, culture and religion, with emphasis upon Christianity. Special attention to psychological and sociological bases of the religious life. (Same as PSYC-3573 and SOCI-3573.) Non-textual. This course is offered as needed.

**3612 SPIRITUAL DEVELOPMENT OF CHILDREN**

A study of the spiritual development of children as it applies to both churches and parents. Study will focus on how Scripture, tradition, reason, and experience are connected in shaping a child's spiritual development. Through reading, interviewing, and assignments students will learn first-hand how to better equip churches and parents to fulfill this role. This course is normally offered in the fall semester of even numbered years.

**3613 JOB TO SONG OF SOLOMON**

An introduction to the wisdom and devotional literature of ancient Israel. This course considers the practical lessons of Proverbs, the problem of suffering in the book of Job, the meaning of life in Ecclesiastes, and the language of praise and faith in the book of Psalms. Special attention is given to the relevance of this literature for contemporary life and faith. This course is normally offered in the spring semester.

**3673 NEW RELIGIOUS MOVEMENTS**

A study of explicitly religious teachings and practices in a wide variety of new religious movements, as well as quasi-religious teachings and practices in such areas as alternative medicine, the environment, self-help and psychotherapy, and the New Age movement. Fulfills the core curriculum non-Western civilization requirement. (Same as MISS-3673.) Non-textual. This course offered as needed.

**3712 HEBREWS**

A detailed study of this important New Testament epistle with emphasis on the supremacy of Christ, the old covenant and the new covenant, the danger of apostasy, and the mighty deeds of the faithful. This course normally offered in the spring semester of even numbered years.

**3713 CONTEMPORARY ETHICS**

This course includes a brief history of ethical theory in Western civilization and a survey of several modern secular ethical systems. These are contrasted with biblical principles

and Christian systems during discussions of specific topics such as sexuality, marriage, divorce, abortion, euthanasia, the relation of Christians to the state, wealth and poverty, war and peace, race relations, and social justice. Non-textual. (Same as SOCI-3713.) This course is normally offered in the fall semester of odd numbered years.

**3823 COUNSELING FOR MINISTERS**

Prerequisite: PSYC-1113

A study of both theoretical formulation and biblical principles to form the basis for supervised laboratory practice of counseling skills for ministers. Non-textual. This course is normally offered in the spring semester.

**3913 PREPARATION AND DELIVERY OF RELIGIOUS****SPEECHES (HOMILETICS)**

Prerequisite: COMM-1213 or permission of instructor.

A study of the theory, practice, and evaluation of the preparation and delivery of sermons and religious speeches. (Same as COMM-3913.) Non-textual. This course is normally offered in the fall semester.

**4133 SYSTEMATIC THEOLOGY**

A systematic study of the major topics of theology: anthropology, ethics, eschatology, ecclesiology, christology, soteriology, and theology proper (Doctrine of God). Special attention will be paid to doctrinal thinking in the Restoration Movement and to contemporary issues in churches of Christ. Majors only, except by special permission of the instructor. Non-textual. This course is normally offered in the spring semester of odd numbered years.

**4222 SENIOR BIBLE SEMINAR: CHRIST AND HIS CHURCH**

The capstone core curriculum Bible course for all seniors. Building on the previous core Bible courses that will give students a final opportunity to explore specific doctrines about the nature of Christianity and the Church. The emphasis is a dialogue between students and Bible teachers. Textual. This course is normally offered every semester.

**4243 OLD TESTAMENT PROPHETS: 8TH CENTURY**

A study of Judean and Israelite prophets who lived during the eighth century. Special attention will be given to the historical background and message of each prophet, as well as his contemporary relevance. This course is normally offered in the fall semester of even numbered years.

**4312 THE PROPHET ISAIAH**

A detailed study of the book of Isaiah with emphasis on his times, his message, and the topic of Messianic prophecy. This course is offered as needed.

**4313 JOSHUA THROUGH NEHEMIAH**

An intensive study of the history of Israel from the formation of the nation through the return from Babylonian exile. Based on the historical books of the Old Testament. Textual. This course is normally offered in the spring semester.

**4412 GREAT CHRISTIAN DOCTRINE**

A systematic study of the biblical teachings regarding revelation, God, Christ and the Holy Spirit. This course is normally offered in the fall semester of even numbered years.

**4413 DANIEL-REVELATION**

A study of the books of Daniel and Revelation as examples of apocalyptic literature from the Old and New Testaments. The content of these books is studied with emphasis on the proper approach to this particular type of biblical material. (Counts as either Old or New Testament textual study.) This course is normally offered in the spring semester of even numbered years.

**4423 GOSPEL OF JOHN**

A study of the life and teachings of Jesus from the viewpoint of the Fourth Gospel. Comparison is made with the Synoptics in appropriate places. Particular emphasis is given to the historical setting at the time the Gospel was written and John's Christology. Textual. This course is normally offered in the fall semester of even numbered years.

**4513 HISTORY OF THE BIBLE**

A study of the formation of the canon, inspiration, transmission and translation of the books of the Bible. The course is designed to provide a knowledge of and appreciation for the varied history of the English Bible. Non-textual. This course is normally offered in the spring semester of odd numbered years.

**4613 ROMANS**

A thorough exegesis of the epistle to the church in Rome with attention to the great doctrines of Christianity emphasized by Paul in this book. Textual. This course is normally offered in the fall semester of odd numbered years.

**4622 THE BOOK OF PSALMS**

An intensive study of the Book of Psalms for non-Bible majors. Primary objectives include providing the student with a working knowledge of the contents of the book, a fundamental grasp of critical issues in the interpretation of Psalms, and a good understanding of the significance of the Psalms for Christian life and the church. Textual. This course is normally offered in the spring semester.

#### **4713 RESTORATION MOVEMENT**

A study of the Scottish origins and American development of the Restoration Movement to the present day. Significant personalities and issues as well as the history and spread of the movement are studied. (Same as HIST-3193.) Non-textual. This course is normally offered in the fall semester of odd numbered years.

#### **4732 NEW TESTAMENT BACKGROUNDS**

An examination of the history, literature, and religious thought of what is known as Second Temple Judaism (586BC-70AD). Special attention will be given to the major themes of the classical Hebrew period, the crisis of Babylonian conquests, Hellenism and Jewish attempts to reconstruct a religious identity in this period. This course is normally offered in the fall semester of even numbered years.

#### **4753 SEMINAR IN CHRISTIAN MINISTRY**

Prerequisite: Senior Standing.

A seminar in such matters as the relationship between ministers and elders, personal and practical problems a minister may face, applying for a job, planning the work of ministries, use of the minister's time, and church leadership. Non-textual. This course is normally offered in the spring semester.

#### **4773 ADVANCED HOMILETICS**

Prerequisite: BIBL-3913 or COMM-3913.

A study of the writing and presentation of sermons, with emphasis on effective public communication. The course also emphasizes analysis of sermons and preparation of a major sermon to be delivered before the Bible faculty. (Same as COMM-4773.) Non-textual. This course is normally offered in the spring semester of even numbered years.

#### **4803 MINISTRY PRACTICUM**

On-site practical service in a local congregation by invitation and under the oversight of the elders and in conjunction with the local minister(s) and a faculty supervisor. The course includes readings, a journal, and a thorough evaluation. Non-textual. This course is normally offered every semester.

#### **4830 NON-TEXTUAL SPECIAL STUDY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

#### **4840 OLD TESTAMENT SPECIAL STUDY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

#### **4850 NEW TESTAMENT SPECIAL STUDY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

#### **4860 CROSS-CULTURAL EVANGELISM**

Normally taken by students in an exchange program with Ibaraki Christian College in Japan. (2-4 hours) This course is offered as needed.

#### **4863 MINISTRY PRACTICUM**

Practical experience in preaching under the guidance of an experienced supervisor. By approval only. This course is normally offered every semester.

#### **4890 STUDIES OF RELIGIONS OF OTHER LANDS**

Content will vary. By approval only. (1-3 hours) This course is offered as needed.

#### **4900 INDEPENDENT STUDY**

Independent study in Old Testament, New Testament or non-textual. This course is offered as needed.

## **BIOLOGY (BIOL)**

#### **1214 GENERAL BOTANY**

A study of the morphology and life cycles of representatives of the various phyla of the plant kingdom. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

#### **1314 GENERAL ZOOLOGY**

A study of the dynamics of animals with emphasis on structure, function, heredity, ecology and behavior with a survey of various invertebrate and vertebrate phyla. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

#### **2013 BIOLOGY I**

A study of the basic unit of life: a cell, including cell structure, energy transfer, metabolic processes, reproduction, and genetics. Lecture – 2 hours per week; Lab/discussion sessions – 2 hours per week. Not applicable for credit in a science major other than Science Education. This course is normally offered every semester.

#### **2023 BIOLOGY II**

Prerequisite: BIOL-2013.

A survey of organisms, emphasizing biological diversity and ecological relationships between organisms. Lecture – 2 hours per week; Lab/discussion sessions – 2 hours per week. Not applicable for credit in a science major other than Science Education. This course is normally offered every semester.

#### **2033 NUTRITION**

A study of basic principles of human nutrition applied to health and diseases of the individual, family, and community. Course topics include biochemical aspects of nutrients, nutrient needs throughout the life cycle, and medical nutrition therapy, and its role in different medical conditions. This course is normally offered in the fall semester.

#### **2114 CELLULAR BIOLOGY**

Prerequisite: CHEM-1115 with a grade of C or better.

An introductory course in cell biology, including a study of water as a biological solvent, biomolecules (carbohydrates, lipids, proteins and nucleic acids), light and electron microscopy, cell structure, the cell cycle and mitosis, cell metabolism, DNA replication, transcription and translation, elementary genetics, and topics in molecular genetics and genetic engineering. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered every semester.

#### **2244 HUMAN ANATOMY**

Prerequisite: 4 hours biological science.

A study of human body at cell, tissue, and organ system levels. Course topics include cells, tissues, and anatomical structures of the major organ systems including integumentary, skeletal and muscular system, nervous system, cardiovascular system, digestive system, respiratory, urinary, and reproductive systems. Lab experience includes observation of histological slides, use of models, and fetal pig dissection. Lecture – 3 hours; Laboratory – 3 hours. This course offered as needed.

#### **2314 GENETICS**

Prerequisite: BIOL-2114 with a grade of "C" or better.

A study of the principles of heredity and variation with emphasis on Mendelian genetics, genetic aberrations, molecular genetics and current genetics research. Lab experiences reinforce concepts of heredity through genetic mating, statistical analysis of data and methods of DNA isolation, manipulation and analysis. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

#### **2523 ANATOMY AND PHYSIOLOGY I**

Prerequisite: BIOL-2013.

This course is part one of a two part comprehensive study of human anatomy and physiology at the cell, tissue, and organ system levels. Course topics include cells, cellular metabolism, and tissues, as well as the structure and function of the integumentary system, skeletal system, muscular system, and nervous system. The course includes an integrated lab which includes hands-on experimentation and animal dissections. Lecture/Laboratory – 4 hours. This course is normally offered in the fall semester.

#### **2623 ANATOMY AND PHYSIOLOGY II**

Prerequisite: BIOL-2523.

This course is part two of a two part comprehensive study of human anatomy and physiology at the cell, tissue, and organ system levels. Course topics include blood components, as well as the structure and function cardiovascular system, lymphatic system, digestive system, respiratory system, urinary system, and reproductive system. The course includes an integrated lab which includes hands-on experimentation and animal dissections. Lecture/Laboratory – 4 hours. This course is normally offered in the spring semester.

#### **2624 PRINCIPLES OF MICROBIOLOGY**

Prerequisites: BIOL-2013 and CHEM-1104.

A study of the microbes, parasites, and infectious elements (e.g., viruses, prions), including the fundamentals of chemistry as applied to metabolism, cell structure and activity of antimicrobial agents. The student will gain a thorough understanding of the practical implications of public health microbiology including microbial control in sanitation, epidemiology and a thorough knowledge of host defenses including details of the immune system function, virulence, immunology and histopathology. The course will also cover a practical application of microbiology in medical testing, vaccination, and treatment of disease. Lecture – 3 hours; Laboratory – 4 hours. This course is normally offered in the spring semester.

#### **3115 HUMAN ANATOMY WITH CADAVER DISSECTION**

Prerequisites: Minimum of 64 completed undergraduate credit hours and completion of either general zoology or cellular biology with a grade of "B" or better.

A study of the gross anatomy of the body. Emphasis is given to the skeletal, muscular, nervous, cardiovascular, respiratory, digestive, renal, and reproductive systems. Lab experience includes dissection of the major regions of a human cadaver. Lecture – 3 hours; Laboratory – 6 hours. This course is normally offered in the fall semester.

#### **3214 ENVIRONMENTAL HEALTH**

Prerequisite: CHEM-1115 or CHEM-1314 with a grade of "C" or better.

An introductory course in environmental health encompassing a comprehensive survey of major environmental issues related to personal and community health, including population dynamics, environmental toxins, and environmental degradation. Integrated lecture/Laboratory – 4 hours. This course is normally offered every semester. This course is normally offered in the fall semester of odd numbered years.

#### **3224 HUMAN PHYSIOLOGY**

Prerequisite: BIOL-1314 and BIOL-2114 or BIOL-3115 with a grade of "C" or better.

A study of the human organism. Emphasis is given to the normal function, regulatory mechanisms and coordination of the neuromuscular, cardiovascular, excretory, digestive, respiratory, endocrine, and reproductive systems. Lab experience includes use of the



physiograph to demonstrate ECG and EMG, blood counting and identification, spirometry, and CPR training. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

### **3324 GENERAL ECOLOGY**

Prerequisite: BIOL-1314 with a grade of "C" or better.

General principles of biotic and abiotic interrelationships, including conservation biology. Field work emphasizes local ecosystems and pollution factors. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester of even numbered years.

### **3415 GENERAL MICROBIOLOGY**

Prerequisites: BIOL-2114 or BIOL-2013 and BIOL-2023 with a grade of "C" or better.

A study of the structure and function of viruses, rickettsiae, bacteria, fungi, protozoans, flatworms, and roundworms. Special emphasis is given to the isolation, culturing, staining, control, and pathogenesis of the organisms. The genetics, host parasite relations and the immune response are also stressed. Lecture – 3 hours; Laboratory – 4 hours. This course is normally offered in the fall semester.

### **3432 PATHOGENIC MICROBIOLOGY LAB**

Prerequisite: BIOL-3415 or equivalent with a grade of "C" or better.

Lab studies involve culture, identification, and control of microorganisms. Also included are the basic immunological concepts and serologic techniques. This course is normally offered in the spring semester.

### **3433 PATHOGENIC MICROBIOLOGY**

Prerequisite: BIOL-3415 or equivalent with a grade of "C" or better.

A study of pathogenic microorganisms and the diseases they produce in humans. Emphasis is on the physiology, pathogenesis, and epidemiology of specific microorganisms, including host responses. This course is normally offered in the spring semester.

### **3514 ORNITHOLOGY**

Prerequisite: BIOL-1314 with a grade of "C" or better.

The natural history of birds with emphasis on U.S. species including avian ecology, anatomy and physiology. Lab experiences are built around field trips devoted to species identification and behavior. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester of odd numbered years.

### **4014 BIOCHEMISTRY I WITH LAB**

Prerequisite: CHEM-3115 with a grade of "C" or better.

A detailed study of the structure and function of the major classes of biomolecules including proteins, lipids, carbohydrates, and nucleic acids. The course also includes in-depth discussions of enzyme mechanisms and catalysis, receptor/ligand interaction, cellular signaling pathways, molecular motors, and membrane structure and function. The lab provides basic biochemical techniques, including differential centrifugation, chromatography, oxidation studies, enzymology, and electrophoresis. Lecture – 3 hours; Laboratory – 3 hours. (Same as CHEM-4014.) This course is normally offered in the fall semester.

### **4123 BIOCHEMISTRY II**

Prerequisite: CHEM-3115 with a grade of "C" or better.

A detailed overview of intermediary metabolism, including discussion of glycolysis, Krebs cycle, oxidative phosphorylation, amino acid synthesis and catabolism, the urea cycle and nucleotide biosynthesis. Lecture – 3 hours. (Same as CHEM-4123.) This course is normally offered in the spring semester of odd numbered years.

### **4213 IMMUNOLOGY**

Prerequisite: BIOL-2114 with a grade of "C" or better.

A study of advanced principles of immunology. The nature of the immune response mechanisms, immuno-genetics, diseases of the immune system and applications of immunology in medicine and research are emphasized. Lecture – 3 hours. This course is normally offered in the fall semester.

### **4223 MOLECULAR BIOLOGY**

Prerequisite: CHEM-3115 with a grade of "C" or better.

An advanced study of molecular biology and genetics with emphasis on the structure, function and mechanisms of the molecules involved in replication, recombination, transcription, RNA processing, translation, and gene expression. Lecture – 3 hours. This course is normally offered in the spring semester of even numbered years.

### **4301 MOLECULAR BIOLOGY LAB**

Prerequisite: BIOL-4223 or concurrent enrollment.

The student will use standard lab techniques to conduct an independent research project that attempts to answer a pertinent question in the area of molecular genetics or cell biology. Laboratory – 6 hours. This course is normally offered in the spring semester of even numbered years.

### **4411 INTRODUCTION TO RESEARCH**

Prerequisites: CHEM-3115 and 8 hours biological science.

An introduction to scientific research in one of several labs at or affiliated with OC. Students spend time in research labs observing current biological, chemical, biochemical or biomedical research. Research techniques, methods and selected research papers from the labs visited are discussed at a monthly research seminar. This course is normally offered every semester.

### **4412 UNDERGRADUATE RESEARCH**

Prerequisites: Junior or Senior standing, BIOL-4411 and permission of the instructor.

A hands-on experience in research at one of several laboratories at or affiliated with OC. The research experience involves reading appropriate research papers, learning appropriate research methods and participating in appropriate seminars. Selection for undergraduate research is competitive and dependent on the number of student applicants, participating laboratories and funding. This course is normally offered every semester.

### **4414 UNDERGRADUATE RESEARCH**

Prerequisites: BIOL-4411 and permission of the instructor.

A full-time research experience lasting at least 8 weeks in a lab at or affiliated with OC or approved by the instructor. Research programs are competitive, and applications must be submitted by February 1. This course is normally offered in the summer.

### **4513 HISTORY AND PHILOSOPHY OF SCIENCE**

Prerequisite: 16 hours biological science.

A survey of the great philosophies of the Western tradition and their influence on the history of science. Specific application will be made to the ethical dilemmas of current science. Lecture – 3 hours. This course is normally offered in the spring semester of even numbered years.

### **4814 FIELD MEDICINE PRACTICUM**

Prerequisites: satisfactory standing in pre-medical studies and selection by the science faculty in cooperation with the International Studies Committee.

Practical experience in assisting a physician at a medical missions clinic as part of the student's enrollment in an international studies program. This course is offered as needed.

### **4900 INDEPENDENT STUDY IN BIOLOGY**

Assigned research, readings and reports based on the needs of the individual student. May be taken only by junior or senior science majors with approval of the departmental chair. (1-3 hours) This course is offered as needed.

## **BUSINESS ADMINISTRATION (BUSA)**

### **1211 INTRODUCTION TO BUSINESS**

An introductory business course designed to acquaint the student in a general way with business terminology, concepts and functions. The course will include broad treatment of business objectives and strategies. Students are introduced to the School of Business Administration and to the skills required to succeed in the field of business. This course is normally offered every semester.

### **3713 CONTEMPORARY BUSINESS ETHICS**

Prerequisite: Junior or Senior standing or instructor permission.

This course examines basic ethical issues involved in the conduct of business from a biblical perspective. Critical thinking regarding organizations as spiritual, social, moral, and ethical entities is explored. Topics include personal responsibility, corporate social responsibility, and the effects of diversity and culture on ethical considerations. This course is normally offered in the fall semester.

### **4213 BUSINESS LAW**

A survey of the Anglo-American system of jurisprudence as the legal background for the operation of the free enterprise system in our society. The course considers the historical, ethical, social and practical perspectives. It also examines the basic rules of law pertaining to contracts, property, sales, negotiable instruments, secured transactions, agency, employment, partnerships, corporations, insurance, bankruptcy, and wills. This course is normally offered every semester.

### **4513 INTERNATIONAL BUSINESS**

Prerequisites: MGMT-3113 and MKTG-3313.

An overview of the world of international business. This class examines the environment and management of international business, stressing the effects of the foreign exchange markets, capital markets and international financial and economic organizations upon managerial functions such as exporting and importing, foreign investment, marketing, personnel, accounting and finance. Students will participate in managing an international firm in a simulation game. This course is normally offered every semester and summer.

### **4900 INDEPENDENT STUDY IN BUSINESS ADMINISTRATION**

Assigned readings, reports and research projects based on the needs of the student. (1-3 hours). A maximum of 3 hours may be counted toward major. This course is offered as needed.

### **4990 INTERNSHIP IN INTERNATIONAL BUSINESS**

Prerequisites: Admission to School of Business Administration Upper Division, completion of BUSA-4513 and approval of advisor and dean.

Supervised and approved international business internship with firm or organization; written and oral reports are required along with employer evaluation. (Variable credit, 1-3 semester hours; 50 hours work required for each hour of credit with a maximum of 3 credit hours.) This course is offered as needed.



# CHEMISTRY (CHEM)

## 1104 INTRODUCTION TO CHEMISTRY

Prerequisite: High school algebra.

A survey course covering atomic structure, bonding, application of mathematics to chemical equations, acid-base chemistry, gas laws and introductory organic and biological chemistry. The lab includes experiments in these lecture topics emphasizing measurement concepts and calculations. Enrollment is contingent upon passing an examination on lab safety with a minimum score of 80 percent. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

## 1115 GENERAL CHEMISTRY I

Prerequisite: One year of high school chemistry or a grade of "C" or better in SDEV 0133 or CHEM-1104. Must pass an exam on lab safety with a minimum grade of 80 percent. Must have ACT math subscore of 23 or higher or its equivalent.

First semester of a two-semester sequence for science majors. A study of atomic theory, bonding, periodicity, thermochemistry, gas laws, and, in general, quantitative relationships in chemical and physical processes. Lecture – 4 hours; Laboratory – 3 hours. This course is normally offered every semester.

## 1215 GENERAL CHEMISTRY II

Prerequisite: CHEM-1115 with a grade of "C" or better.

Second semester of a two-semester sequence for science majors. A study of the liquid and solid states, solubility and acid-base equilibria, thermodynamics, kinetics, oxidation-reduction, electrochemical cells, and complex ions. Also includes an introductory unit on organic chemistry. Lecture – 4 hours; Laboratory – 3 hours. This course is normally offered in the spring semester and summer.

## 1314 GENERAL CHEMISTRY FOR ENGINEERS

Prerequisite: One year of high school chemistry or a grade of "C" or better in SDEV 0133 or CHEM-1104. Must pass an exam on lab safety with a minimum grade of 80 percent. Must have ACT math subscore of 23 or higher or its equivalent.

A study of stoichiometry, periodicity, electronic structure of the atom, bonding theories, the states of matter, thermochemistry, and chemical thermodynamics, and selected applications for engineering. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

## 2113 INTRODUCTION TO FORENSIC SCIENCE

A survey course covering the various ways in which science is applied to law. The major fields of forensic science and their basic tenets will be discussed and supported through various readings and outside speaker presentations. Topics of forensic science to be discussed include criminalistics, forensic pathology, forensic anthropology, forensic entomology, forensic psychiatry, forensic odontology, forensic engineering, forensic nursing, forensic accounting, and forensic art. Lecture—3 hours. This course is normally offered in the fall semester.

## 3115 ORGANIC CHEMISTRY I

Prerequisite: CHEM-1215 with a grade of "C" or better.

An integrated study of atomic and molecular orbital theory with the naming of organic compounds, including an introduction to stereochemistry. A study of structure and reactivity of various types of organic compounds, including alkenes, alkynes, dienes, alkanes, alkyl halides, alcohols, amines, ethers, radicals, and epoxides. Principles of mass spectroscopy, infrared spectroscopy, and ultraviolet/visible spectroscopy. Lab exercises include Introduction to lab techniques used in organic analysis, identification, and synthesis, including Fourier transform infrared spectroscopy. Techniques for determining physical properties, such as melting point, boiling point, and refractive index, as well as performing extraction, recrystallization, sublimation, and distillation. Use of the lab notebook and preparation of a detailed lab report. Lecture – 4 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

## 3114 ANALYTICAL CHEMISTRY I

Prerequisite: CHEM-3124 with minimum grade of "C" or better.

A course for increasing the understanding of the chemical composition of matter, and the tools and techniques used to make qualitative and quantitative analyses. The student will learn to apply scientific measurement principles in order to understand chemical systems and collect useful information. The student will experience analysis with several techniques and instruments found in the analytical laboratory. Lecture—3 hours; Laboratory—3 hours. This course is normally offered in the fall semester of odd numbered years.

## 3124 Organic Chemistry II

Prerequisite: CHEM-3115 with a grade of "C" or better.

Continuation of the first semester course with emphasis on the study of organic chemical reactions, including the reactions of benzene, the reactions of substituted benzenes, and the structure and reactions of carbonyl compounds that include aldehydes, ketones, and carboxylic acid derivatives. Coverage of oxidation-reduction reactions, heterocyclic compounds, and multi-step synthesis processes. Principles of NMR spectroscopy. Lab exercises include using techniques from first semester lab course plus gas chromatography and NMR to perform and evaluate the following chemical reactions: catalytic hydrogenation of alkenes, hydration of alkenes, synthesis of alcohols, use of nucleophilic substitution to synthesize 1-bromobutane, Grignard synthesis, aromatic substitutions, the Friedel-Crafts acylation reaction, and pinacol rearrangements. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

## 3214 ANALYTICAL CHEMISTRY II

Prerequisite: CHEM-3114.

A course for increasing the knowledge of gathering qualitative and quantitative information about the composition and structure of matter. This course is to help the student gain an understanding of the tools available for solving analytical problems. The pitfalls that accompany physical measurements and the limitations in sensitivity, precision, and accuracy of instrumental measurement will be discussed. The strengths and limitations of instruments that are currently available in modern industrial and research laboratories, such as the gas chromatograph/mass spectrometer, high performance liquid chromatograph, atomic absorption spectroscope, ultraviolet/visible light spectrophotometer, Fourier transform infrared spectroscope, and Raman spectroscope, will be covered in detail. Lecture—3 hours; Laboratory—3 hours. This course is normally offered in the spring semester of even numbered years.

## 4014 BIOCHEMISTRY I AND LAB

Prerequisite: CHEM-3124 with a grade of "C" or better.

A detailed study of the structure and function of the major classes of biomolecules, including proteins, lipids, carbohydrates, and nucleic acids. The course also includes in-depth discussions of enzyme mechanisms and catalysis, receptor/ligand interaction, cellular signaling pathways, molecular motors, and membrane structure and function. The lab provides basic biochemical techniques, including differential centrifugation, chromatography, oxidation studies, enzymology, and electrophoresis. Lecture – 3 hours, Laboratory – 3 hours. (Same as BIOL-4014.) This course is normally offered in the fall semester.

## 4113 PHYSICAL CHEMISTRY I

Prerequisites: CHEM-3124 and MATH-2114.

Corequisite: CHEM-4121.

A study of the mathematical approaches to the physical properties of chemical systems, including gas laws, thermodynamics equilibria, liquids and solutions, solids, and reaction rates. Lecture – 3 hours. This course is normally offered in the fall semester of odd numbered years.

## 4121 PHYSICAL CHEMISTRY EXPERIMENTS I

Corequisite: CHEM-4113.

Lab exercises to accompany CHEM-4113, which is a corequisite. Laboratory – 3 hours. This course is normally offered in the fall semester of odd numbered years.

## 4123 BIOCHEMISTRY II

Prerequisite: CHEM-4014.

A detailed overview of intermediary metabolism including discussion of glycolysis, Krebs cycle, oxidative phosphorylation, amino acid synthesis and catabolism, the urea cycle and nucleotide biosynthesis. Lecture – 3 hours. (Same as BIOL-4123.) This course is normally offered in the spring semester of odd numbered years.

## 4213 PHYSICAL CHEMISTRY II

Prerequisite: CHEM-4113. Corequisite: CHEM-4221.

A study of quantum mechanical investigations into chemical systems, concentrating on the fundamental nature of atoms, molecules and bonding. These principles are used to discuss the interaction of atoms and molecules with radiation and the statistical behaviors of ensembles. Lecture – 3 hours. This course is normally offered in the spring semester of even numbered years.

## 4221 PHYSICAL CHEMISTRY EXPERIMENTS II

Prerequisite: CHEM-4121. Corequisite: CHEM-4213.

A continuation of CHEM-4121. Laboratory – 3 hours. This course is normally offered in the spring semester of even numbered years.

## 4313 FORENSIC TOXICOLOGY

Prerequisite: CHEM-3115.

An integrated study of toxicology as it relates to forensic science. This course will provide an introduction to postmortem forensic toxicology, forensic drug testing. Analytical principles, both theory and applications, will be covered for the most commonly encountered analytes. This course is primarily theory and background. Lecture—3 hours. This course is normally offered in the fall semester of odd numbered years.

## 4414 INORGANIC CHEMISTRY

Prerequisites: CHEM-3124 and PHYS-2713.

A study of inorganic chemistry: advanced atomic theory, symmetry and group theory, molecular orbital theory, advanced acid-base theory, coordination chemistry, spectroscopy, and introduction to solid state, main group, organometallic, bioinorganic, and environmental chemistries. Lecture – 3 hours, Laboratory – 3 hours. This course is normally offered in the fall semester of even numbered years.

## 4514 FORENSIC ANALYSIS

Prerequisite: CHEM-3115

An integrated laboratory/lecture study of various up-to-date technologies utilized by forensic scientists in their application of science to criminal investigations. The laboratory will include many prominent analyses, including blood alcohol, drugs of abuse, ink, fingerprint, glass fragmentation, and explosives. Lecture – 3 hours; laboratory – 3 hours. This course is normally offered in the spring semester of even numbered years.

## 4611, 4612, 4613 RESEARCH METHODS

Prerequisite: permission of instructor.

A lab-literature approach to advanced topics and methods in chemistry. Work will involve lab experiences beyond those available in other courses, with methods development for undergraduate research projects. (1-3 hours) This course offered as needed.

#### **4711, 4712, 4713 PRACTICUM IN FORENSIC SCIENCE**

Prerequisite: CHEM-3115 with grade of C or better and recommendation of the chemistry faculty.

A hands-on experience in forensic science research in the chemistry laboratories at OC or in the forensic laboratory of the Oklahoma State Bureau of Investigation (OSBI) Forensic Science Center (FSC) or at another suitable forensic science lab. The student will rotate through all units of the FSC or be assigned a specific unit working on a designated research project or perform a research project at OC. Laboratory—3-8 hours. This course is normally offered in the fall and spring semesters and in the summer.

#### **4900 INDEPENDENT STUDY IN CHEMISTRY**

Assigned readings, reports or lab investigations based on the needs and interests of the individual student. Must be administered by a chemistry professor and may be taken only with the approval of both the departmental chair and the instructor directing the study. (1-3 hours) This course offered as needed.

#### **4901 INDEPENDENT STUDY IN CHEMICAL HEALTH AND SAFETY**

Prerequisites: CHEM-3115 and permission of instructor.

Reviewing technical sources of information, understanding the human health and safety of a chemical compound commonly found in the workplace or in the environment. Organizing the information and co-writing with the instructor an informational article for publication in an American Chemical Society peer-reviewed journal. 1 hour. This course is normally offered every semester.

## **CHILD DEVELOPMENT (CHDV)**

#### **3013 NATURE AND CHARACTERISTICS OF EARLY CHILDHOOD**

Prerequisite: FMST-1113. Corequisite or prerequisite: PSYC-3523. Practicum: 15 hours (CHDV-3013P)

After studying the broad field of Early Childhood in relation to its multiple historical, philosophical and social foundations, the candidate will examine how these foundations influence current thought and practice. After exploring the characteristics of the young child from birth to age eight, the candidate will demonstrate observation techniques and planning skills related to developmentally appropriate practice. The candidate will also reflect on the role of the teacher and ethical considerations of the Early Childhood field. (Cross listed with ECED-3013 but will not apply to teacher licensure requirements.) This course is normally offered in the fall semester.

#### **3023 EMERGENT LITERACY**

Prerequisites: FMST-1113, CHDV-3013 and PSYC-3523.

After surveying language development and techniques for facilitating that development as it emerges from infancy through the primary years, the candidate will plan and implement methods and activities to encourage the emergence of literacy. The candidate will also develop an understanding of and respect for the sociocultural diversity of literacy development as well as the interrelationships of culture, language, thought and the function of the home language in the development of young children. (Cross listed with ECED-3023 but will not apply to teacher licensure requirements.) This course is normally offered in the fall semester.

#### **4023 TOPICS IN EARLY CHILDHOOD**

Prerequisite: FMST-1113, CHDV-3013 and PSYC-3523.

The candidate will describe and apply behavior and guidance theories for the young child from infancy through age eight. The candidate will also demonstrate techniques for planning and implementing parental involvement and for understanding the child and his or her family in the context of society. (Cross listed with ECED-4023 but will not apply to teacher licensure requirements.) This course is normally offered in the in the spring semester.

## **COMMUNICATION (COMM)**

#### **1111 INTRODUCTION TO MASS COMMUNICATION**

Prerequisite: Communication, interdisciplinary studies, and undeclared majors only.

An overview of print and electronic mass media with illustrations of opportunities available in the area of communication. Students gain an overall understanding of the media before focusing on specific aspects of it in subsequent courses and evaluate their interests and goals as they relate to mass media careers. This course is normally offered every semester.

#### **1211 INTRODUCTION TO ELECTRONIC MEDIA**

Prerequisite: Communication, interdisciplinary studies, and undeclared majors only.

Designed to introduce the first-time student to electronic media and Eagle broadcasting. This course is normally offered in the fall semester.

#### **1213 COMMUNICATION II: ORAL COMMUNICATION**

Prerequisite: ENGL-1123 with a grade of "C" or better.

Study and practice of communication behavior in a variety of situations, focusing on

interpersonal and public communication. Media literacy for presentations will also be included. This course is normally offered every semester.

#### **1311 ACTING WORKSHOP**

Requires 60 hours in rehearsal and performance in a faculty-directed campus dramatic production, director approval only. This course is normally offered every semester. This course is normally offered every semester.

#### **1321 TECHNICAL THEATER WORKSHOP**

Prerequisite: COMM-1411 or instructor consent.

Requires 60 hours of backstage work in a faculty-approved campus theater production. This course is normally offered every semester.

#### **1341 NEWSPAPER WORKSHOP**

Prerequisite: COMM-2113 or instructor consent.

Supervised work on the student newspaper with some instruction. To receive credit, a student must work at least 60 hours. This course is normally offered every semester.

#### **1351 ADVANCED NEWSPAPER WORKSHOP**

Prerequisites: Junior or Senior standing and COMM-1341.

Same as COMM-1341, but for juniors and seniors. To receive credit, a student must work at least 60 hours. This course is normally offered every semester.

#### **1371 BROADCAST WORKSHOP**

Prerequisite: COMM-1211.

For those involved in the operation and management of Eagle Radio or Eagle Cable. The course includes implementation and development of broadcasting skills and techniques. To receive credit, a student must work at least 60 hours. This course is normally offered every semester.

#### **1381 ADVANCED BROADCAST WORKSHOP**

Prerequisites: Junior or Senior standing and COMM-1371.

Same as COMM-1371, but for juniors and seniors. To receive credit, a student must work at least 60 hours. This course is normally offered every semester.

#### **1391 INTERACTIVE MEDIA WORKSHOP**

Prerequisite: Interactive Media Majors only.

Implementation and development of interactive media skills and techniques. To receive credit, a student must complete a project or projects requiring at least 60 hours. This course is normally offered in the summer.

#### **1411 INTRODUCTION TO PLAY PRODUCTION**

The student will be introduced to technical theater production through a series of hands-on workshops. These workshops will introduce the student to theater lighting, sound, set building, props, costuming, make-up, house management and publicity. This course is normally offered in the fall semester.

#### **1412 MOVEMENT AND CHOREOGRAPHY FOR THE STAGE**

A basic course in body awareness and physical performance. By using an activities approach, this course will address habitual patterns of body usage, achievement of a neutral body, increased body awareness, the use of breath in movement, the use of the body to communicate and styles of physical performance. This course is normally offered in the fall semester.

#### **2023 HISTORY OF THEATER I**

This course will expose students to the development of Western theatrical traditions through primary sources, class lectures and critical dialogue. The course will trace the earliest records of theatrical staging to the rise of eighteenth-century national Theatres in Europe. Special emphasis will be placed on technological innovations, dramatic conventions and the role of politics and ritual in theatrical history. Students will synthesize their coursework in a final project designed for use in a professional or graduate level portfolio. Composition and reading outside of class will be required. This course is normally offered in the fall semester of odd numbered years.

#### **2033 HISTORY OF THEATER II**

This course will expose students to the development of Western theatrical traditions through primary sources, class lectures and critical dialogue. But the course will trace the popularity of Romanticism through contemporary postmodern resistance in Europe and the United States. Again, special emphasis will be placed on philosophy, political movements and the relationship between ritual and performance theory. Students will synthesize their coursework in a final project designed for use in a professional or graduate level portfolio. Composition and reading outside of class will be required. This course is normally offered in the fall semester of odd numbered years.

#### **2113 MEDIA WRITING**

Prerequisite: ENGL-1123.

An introduction to writing skills, with attention to writing news, features, broadcast, public relations and advertising. This course is normally offered every semester.

#### **2213 VOICE AND ARTICULATION**

Prerequisite: COMM-1213.

An application of phonetics to the improving of articulation, vocal patterns, and vocal performance. This course is normally offered in the spring semester of odd numbered years.

**2223 STAGECRAFT FOR THEATER AND TELEVISION**

Prerequisite: COMM-1411.

A basic introduction to the construction of stage scenery, props, stage lighting and sound for theater and television. Using a hands-on approach, the course is of special value to the theater and television student, as well as the art student preparing to work in art galleries or the advertising design student interested in working in the media of theater and television. This course is normally offered in the fall semester of odd numbered years.

**2313 ACTING I**

Introductory approach to acting through body and voice development. Participation in the campus theater activities is required. Acting I is a course in acting fundamentals. The course focuses on two broad areas: the actor's approach to a role and the develop of the actor's instrument: voice and body. This course is normally offered in the fall semester of odd numbered years.

**2413 PHOTOGRAPHIC PRINCIPLES AND PRACTICES**

Prerequisite: Communication department major or permission of department.

A course designed for students who need a working knowledge of photography in their chosen profession. Enrollment is limited to specific majors. The course will emphasize composition and content. No darkroom work is required. Digital cameras are allowed if the camera features manual overrides of automatic settings. This course is normally offered in the fall semester.

**2513 COMMUNICATION THEORY**

Special attention to various types of communication theory and research, including interpersonal, public and mass communication. A unit on the history of communication study is included. This course is normally offered in the spring semester of even numbered years.

**2613 MEDIA AND SOCIETY**

An introduction to the relationship between the mass media and the culture in which it operates. Major theories of how the media work are introduced. This intermediate course helps prepare students for subsequent courses in news reporting, video and audio production, advertising, and public relations. This course is normally offered in the fall semester of odd numbered years.

**2643 MEDIA PRODUCTION**

An orientation to the equipment and technical skills involved in acquiring and editing audio and video in a digital, non-linear environment. Students will apply composition and editing theories to several productions during the term. This course is normally offered in the fall and summer terms.

**2723 SCRIPTWRITING FOR TELEVISION AND MOVIES**

An examination and application of the successful patterns, traditions and conventions of narrative scriptwriting for television and film while maintaining creative innovation. During the term each student will write a script for a defined audience. This course is normally offered in the fall semester.

**2813 ADVERTISING PRINCIPLES**

Prerequisite: COMM-1111 or COMM-2113.

Designed to introduce the student to the history of advertising and its role and function today. The course focuses on current case studies about advertising today and analyze an ad campaign. This course is normally offered in the fall semester of odd numbered years.

**2823 PUBLIC RELATIONS PRINCIPLES**

Prerequisite: COMM-1111 or COMM-2113.

Study of the function and procedures of public relations with attention to methods of gaining public support for an activity, cause, or movement. The course includes fundamentals of public relations copy for varied media and channels. This course is normally offered in the fall semester of even numbered years.

**2833 REPORTING**

Prerequisites: COMM 2113 and COMM 2643.

A project-based course designed to teach the basic skills of information gathering and processing for various means of distribution including print, broadcast and web. Students will begin maintaining their own portfolio of work. This course is normally offered in the spring term.

**3113 BUSINESS AND PROFESSIONAL COMMUNICATION**

Prerequisites: COMM-1213 and Junior standing.

Special attention is given to communication theories as they apply to a variety of business and professional settings, including conflict management, leadership, team management, and professional speaking situations. This course is normally offered every semester.

**3123 ORAL INTERPRETATION**

Prerequisite: COMM-1213 or permission of instructor.

Study and practice in the oral interpretation of literature. This course is normally offered in the fall semester of even numbered years.

**3133 COSTUMING AND MAKEUP**

A study of the design and construction of stage costumes and a study of makeup. Laboratory – 4 hours. This course is normally offered in the spring semester of odd numbered years.

**3203 ACTING STYLES**

Prerequisite: COMM-2313.

The class will devise ways of developing performance anterior to realistic traditions. Emphasis will be placed on dramatic analysis, improvisation, theatre games and bodily exploration and facial masks to produce stylistic performances. Course materials will expose students to several historical or experimental styles of acting through dramatic literature and class exercises. Rehearsal, research and critical writing outside of class will be required. This course is normally offered in the fall semester of even numbered years.

**3213 STAGE DIRECTING**

Prerequisite: COMM-2313.

Fundamentals of the director's craft. Each student directs a one-act play as the semester project. This course is normally offered in the spring semester of even numbered years.

**3223 THEATER DESIGN**

Prerequisite: COMM-2223.

Intended to prepare a person to work in the visual media of theater, television or film. Students learn about a wide variety of materials and methods to visualize and execute a design for theatrical productions. The course is a study of design principles and drafting techniques applicable to all areas of production design. This course is normally offered in the spring semester of even numbered years.

**3323 ORGANIZATIONAL COMMUNICATION**

Prerequisite: COMM-2513.

An examination of the functions of communication in the organizational setting, with emphasis on the application of recent research and theories to the analysis of communication in organizations. This course is normally offered in the fall semester of even numbered years.

**3333 GROUP COMMUNICATION**

Prerequisite: COMM-1213.

A study of the communication patterns and dynamics of small groups. Special attention is given to organizing, participating in and evaluating group discussions. This course is normally offered in the spring semester of odd numbered years.

**3341 PUBLIC RELATIONS WORKSHOP**

Prerequisite: Junior Standing and at least two terms of COMM 1341 or 1371.

For those involved in structured on-campus public relations experiences. The course provides opportunity for application and development of public relations skills in a supervised environment. To receive credit, the student must work at least 60 hours and meet goals set by the student and professor at the beginning of the term. This course is normally offered every semester.

**3343 ADVERTISING COPYWRITING**

Prerequisite: Junior standing.

Designed for journalism and broadcasting students to teach the art of writing commercial copy for radio, television, and newspaper. This course complements courses in journalism and broadcasting which emphasize the writing of news. Students also develop an ad campaign. This course is normally offered in the fall semester.

**3353 INTERPERSONAL COMMUNICATION**

Co or Prerequisite: COMM-2513.

An application of interpersonal communication theory and research to the study of developing relationships and family communication. Course topics include listening, non-verbal communication, conflict management, and gender differences in communication. This course is normally offered in the spring semester of even numbered years.

**3453 ELECTRONIC NEWS WRITING**

Prerequisite: COMM-2113 and prerequisite or corequisite: COMM-3643.

Supervised writing to meet the professional demands of organizing and presenting information for broadcast. This course is normally offered in the fall semester of even numbered years.

**3633 AUDIO FOR MEDIA**

Prerequisite: COMM-1211 OR ARTS-2223.

Theories of audio production for both broadcast and non-broadcast applications. Dual and multi-track styles, analog and digital equipment and computer editing are used. This course is normally offered in the spring semester.

**3653 TELEVISION FIELD PRODUCTION**

Prerequisite: COMM-3643.

Involves more advanced television production techniques with a focus on production for broadband delivery systems, such as broadcast and cable. Examines closely the theories appropriate to quality television production. This course is normally offered in the spring semester.

**3703 COMPUTER GRAPHICS FOR BROADCAST**

Prerequisite: ARTS-1103 and COMM-3643.

Use of software (Aftereffects and Photoshop) in the creation of motion graphics for broadcast and multimedia. This course is normally offered in the spring semester.

**3723 INTERVIEWING**

Prerequisite: COMM-1111 or COMM-2113 and Junior standing.



Provides the student with the understanding and skills necessary for a variety of interviewing situations, including radio and television. Students are taught listening skills and how to implement these techniques for more effective interviews. This course is normally offered in the spring semester.

### **3733 MEDIA MARKETING AND SALES**

Prerequisite: Junior standing.

Stresses understanding of basic media tools such as radio and television ratings analysis; national rating services and rate cards; media buying for specific demographic targets; and the use of various media as marketing vehicles. This course is normally offered in the spring semester of odd numbered years.

### **3743 PUBLIC RELATIONS METHODS**

Prerequisite: COMM-2823 or instructor consent.

Designed to survey the commonly used communications tools in public relations with emphasis on how to work with them. Students will learn to design questionnaires, create annual reports, arrange press conferences, script slide shows and perform other public relations functions that require special expertise. This course is normally offered in the spring semester.

### **3823 FEATURE WRITING**

Prerequisite: COMM-2113.

Continuation of COMM-2113, including lectures and labs in interviewing, feature writing, opinion writing, investigative journalism, sports, and other specialized areas of journalism. This course is normally offered in the spring semester of odd numbered years.

### **3913 PREPARATION AND DELIVERY OF RELIGIOUS SPEECHES (HOMILETICS)**

Prerequisite: COMM-1213.

A study of the theory, practice and evaluation of the preparation and delivery of sermons and religious speeches. (Same as BIBL-3913.) This course is normally offered in the fall semester.

### **4103 MODERN DRAMA**

Same as ENGL-4813 when the genre offered is modern drama. This course is normally offered in the spring semester of even numbered years.

### **4113 PERSUASION**

Prerequisite: COMM-2513

An examination of classical and contemporary theories of social influence with an emphasis on the practical applications of these theories in politics, advertising, religion, and interpersonal communication. This course is normally offered in the fall semester.

### **4123 ELECTRONIC NEWS PRODUCING**

Prerequisite: COMM 2833.

A course focused on the essential task of producing television news for broadcast, cable or the web including newscasts, segments and special programming. A section of the course also focuses on continuing to develop one's ability to prepare effective news packages. Producing involves a great deal of writing. Writing helps the news to be communicated effectively and efficiently. Opportunities for news producers are increasing as local stations add more newscasts or news-oriented programs to differentiate themselves from cable or satellite channels. In addition there are many specialized channels that need producers for regular and special programming 24/7. This course is normally offered in the fall semester of odd numbered years.

### **4213 PERFORMANCE CONVENTIONS: RELIGIOUS DRAMA**

Students will investigate the historical, theoretical and ritual relationship between religion and theatre through reading, critical writing and performance. Special topics will include religious and supernatural dramas, contemporary associations between religion and theatre and the role of theatre in evangelistic ministry. Students will synthesize their coursework in a final project that integrates religion and theatre in scholarly writing or formal staging. Rehearsal and composition outside of class will be required. The two versions of Performance Conventions will alternate. This course is normally offered in the spring semester of even numbered years.

### **4223 PERFORMANCE CONVENTIONS: EXPERIMENTAL THEATRE**

Students will explore the significance and practice of twentieth-century avant-garde movements and experimental staging through performance, reading and critical dialogue. The course will study works and theatre artists outside the conventional Western canon and adopt the ethos and practice of these performance theories in several student generated works. Special attention will be given to integrating experimental practices into student directed projects and using theatre as a means for achieving social justice. This course is normally offered in the spring semester of even numbered years.

### **4513 ADMINISTRATIVE ASPECTS OF ELECTRONIC MEDIA**

Prerequisite: Junior standing.

A study of the programming theories of radio, television and cable services, and of the management structures of those services. Programming simulation is included. This course is normally offered in the spring semester of even numbered years.

### **4631 SENIOR SEMINAR IN COMMUNICATION**

Prerequisites: communication or mass communication major and senior standing.

Resumes and resume tapes or CD-ROM will be prepared by the students. This course is normally offered in the fall semester.

### **4633 INTERCULTURAL COMMUNICATION I**

A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. ENGL-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. (Same as ENGL-4633, MISS-4633 and SOCI-4633.) This course is normally offered every semester.

### **4713 MEDIA LAW**

Prerequisites: Junior standing.

Looks at past and current legal decisions that shape the role of the media in society today. The course also examines the legal aspects of both the print and electronic media and also the role of the regulatory agency on the electronic media. This course is normally offered in the fall semester and in the summer.

### **4723 MEDIA ETHICS**

Prerequisites: COMM-4713 and Senior standing.

Designed to introduce the student to the ethical decisions that must be made by both the practitioners and the consumers of the mass media. It is designed to supplement the legal course and give the Christian a higher standard of performance. This course is normally offered in the spring semester.

### **4733 COMMUNICATION ETHICS**

Prerequisite: Senior standing or instructor's consent.

Examines a variety of ethical approaches to communicating. Students will investigate motives for choice making among what may appear to be equally compelling or attractive choices. The assumption of responsibility for communication choices by communicators will highlight class assignments. This course is normally offered in the fall semester of even numbered years.

### **4773 ADVANCED HOMILETICS**

Prerequisite: BIBL-3913 or COMM-3913.

A study of the writing and presentation of sermons, with emphasis on effective public communication. The course also studies analysis of sermons and preparation of a major sermon to be delivered before the Bible faculty. (Same as BIBL-4773.) This course is normally offered in the spring semester of even-numbered years.

### **4810 SPECIAL STUDIES**

An advanced, in-depth study of a particular problem area of mass communication. Content varies, and course may be repeated. (1-3 hours). This course is offered as needed.

### **4820 MEDIA INTERNSHIP**

Prerequisite: instructor consent.

Practical experience designed to acquaint the student with a specific area of the media in order to assist the student in achieving career objectives. 1-2 hours credit, depending upon the number of hours worked each week. This course is offered as needed.

### **4830 COMMUNICATION INTERNSHIP**

Prerequisite: instructor consent.

Practical experience designed to acquaint the student with a specific area of the communication field in order to assist the student in achieving career objectives. 1-2 hours credit, depending upon the number of hours worked each week. This course is offered as needed.

### **4900 INDEPENDENT STUDY IN COMMUNICATION**

Prerequisite: instructor consent.

Requires a creative project involving the student in a deeper study of some area of communication. Guided readings or research project based on prospectus is presented by the student after consultation with the instructor. The course may be taken by juniors and seniors with approval by the departmental chair after consultation with the instructor. This course is offered as needed.

## **COMPUTER ENGINEERING (CENG)**

### **3113 DATA COMMUNICATIONS AND NETWORKING**

Prerequisites: Admitted into ECE or CMSC-3443.

An introduction to computer and data communications. Strong emphasis on protocols and principles of network design with mathematical modeling. Students will learn principles of network design at data link, network, and transport network layers. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

### **3203 INTRODUCTION TO MICROPROCESSORS**

Prerequisite: ENGR-2544

Introduction to the architecture and programming of microprocessors. Computer organization, addressing modes, assembly language programming techniques and microprocessor interfacing. Lecture – 3 hours. This class is normally offered in the fall semester.



### 3213 COMPUTER SYSTEMS

Prerequisite: CENG-3203.

System design using microprocessors. Top-down system design, memory mapping, interrupts and real-time events, analog and digital I/O, device interfacing, advanced programming techniques. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

### 3223 EMBEDDED SYSTEMS DESIGN

Prerequisite: Admitted to ECE, CENG-3203

Embedded microcontroller system design using an integrated development environment (IDE). Starting with a set of specifications, a self-contained finished microprocessor-based product will be designed and built. Topics will include controller selection, in-system programmability, internal/external peripherals, assessment of computing/memory resources needed, interface standards, software development, conservation of power, performance improvement, layout of printed-circuit boards, and test/validation strategies. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

### 4113 NETWORK SYSTEM DESIGN

Prerequisite: CENG-3113.

A continuation of the study of data communication networks, beginning with advanced topics of modern virtual network protocols, aggregate network design principles. These principles are then applied to an in depth study of network systems design including processors, memory architectures, and switch fabric technologies. Lecture 2 hours, Laboratory 3 hours. This course is normally offered in the fall semester.

### 4203 ADVANCED COMPUTER ARCHITECTURE

Prerequisite: CENG-3213

Computer organization and design. Fundamentals of computer design, instruction set architectures, instruction-level parallelism, pipelining principles, speculation, thread-level parallelism, memory hierarchies, cache principles, virtual memory, multiprocessors, storage systems, clusters, historical perspectives. Lecture – 3 hours. This course is normally offered in the spring semester.

### 4303 INTEGRATED CIRCUIT DESIGN

Prerequisites: Admitted into ECE, CENG-3203.

Design of modern integrated circuits with emphasis on design and development of custom digital circuits using Hardware Description Languages (HDL) (e.g. VHDL/Verilog). A complete application-specific microprocessor will be designed, implemented, and tested in the lab. Hardware and software to support, test, and validate the design will be developed. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

### 4732 SYSTEMS DESIGN I

Prerequisite: Consent of ECE department.

A recap and extension of problem-solving skills introduced in earlier courses using a systems design approach to prepare the student for the capstone design project work of CENG-4743 and CENG-4753; topics include engineering design terminology, methodology and procedures; technical memos and reports; safety, ethics, information gathering, and team dynamics. Significant emphasis on oral presentations is included. Laboratory – 3 hours. (Same as MECH-4732 and ELEC-4732.) This course is normally offered in the spring semester.

### 4743 SYSTEMS DESIGN II

Prerequisite: CENG-4732.

Corequisite: ENGR-3213.

An implementation of the design methodology covered in Systems Design I. Applications of research and design relating to real world or industry problems; interaction with other fields of engineering and science. CENG-4743 and CENG-4753 constitute a single two-semester project experience. Laboratory – 6 hours. (Same as MECH-4743 and ELEC-4743.) This course is normally offered in the fall semester.

### 4753 SYSTEMS DESIGN III

Prerequisites: CENG-4743.

A continuation and completion of the capstone design project begun in CENG-4743. Students not successfully completing the entire project must normally retake CENG-4743/4753 with a new project assignment. Laboratory – 6 hours. (Same as MECH-4753 and ELEC-4753.) This course is normally offered in the spring semester.

## COMPUTER SCIENCE (CMSC)

### 1003 INTRODUCTION TO INFORMATION TECHNOLOGY

Designed to introduce the student to the tools and methods of the information age. Topics include PC hardware and software, the DOS and Windows environments, GUI interface, memory management and use of common PC devices (hard disks, CD-ROM, sound cards, etc.). A relational database is utilized in software development. This course includes laboratory experiences. Lecture – 2 hours; Laboratory – 2 hours. This course is normally offered every semester.

### 1113 PROGRAMMING I

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher.

An introduction to the discipline of computing. The course has three major objectives: to present computing as a discipline, to develop skills in problem solving using a computer

and to teach the software development process. This course includes laboratory experiences in computer science. Lecture – 3 hours; Laboratory – 2 hours. This course is normally offered every semester.

### 1123 PROGRAMMING II

Prerequisites: CMSC-1003 and CMSC-1113 or permission of instructor.

Corequisite: CMSC-1123L

Continues the development of basic topics in computing, including algorithm design and implementation, and basic data structures such as linked lists and recursion. The course focuses on the software development process, including application design, testing and documentation. This course includes laboratory experiences in computer science. Lecture – 3 hours; Laboratory – 2 hours. This course is normally offered every semester.

### 2133 OBJECT ORIENTED PROGRAMMING

Prerequisite: CMSC-1123.

Covers object oriented design and implementation issues. Topics include an introduction to modeling tools (e.g. UML), abstraction, inheritance, polymorphism, memory management, and common design patterns. The course also provides an introduction to event handling and GUI development using relevant class libraries. This course is normally offered in the fall semester.

### 2262 JAVA

Prerequisite: CMSC-1123.

Introduces the syntax and semantics of the programming language Java. This course is offered as needed.

### 2272 BUSINESS APPLICATION PROGRAMMING (COBOL)

Prerequisite: CMSC-1123.

Introduces the syntax and semantics of the programming language COBOL. This course is offered as needed.

### 2302 PERL

Prerequisite: CMSC-1123.

Introduces the syntax and semantics of the programming language Perl. This course is offered as needed.

### 2312 ADVANCED C++

Prerequisite: CMSC-2133.

Special attention will be given to problem solving, program design, efficiency of code, and testing program correctness. This course is offered as needed.

### 2322 VISUAL BASIC.NET

Prerequisite: CMSC-1123.

Introduces the syntax and semantics of the programming language Visual Basic.NET. This course is offered as needed.

### 2332 C#

Prerequisite: CMSC-1123.

Introduces the syntax and semantics of the programming language C#. This course is offered as needed.

### 2413 INTRODUCTION TO ASSEMBLY LANGUAGE

Prerequisites: CMSC-1123 and MATH-1623 or departmental permission.

An introduction to assembly language concepts and programming. The topics include binary and hexadecimal number systems, data representation methods, addressing techniques and subroutines. This course is normally offered in the fall semester.

### 2423 INTRODUCTION TO FILE PROCESSING

Prerequisite: CMSC-1123.

An introduction to concepts and techniques of structuring data on external storage devices. Both sequential and random access media will be covered. Topics include traversing and balancing binary, B and AVL trees, as well as techniques for implementing inverted lists and indexed sequential and hierarchical structures. This course is normally offered in the spring semester.

### 3233 DATA STRUCTURES AND ALGORITHM ANALYSIS

Prerequisites: MATH-1623 and CMSC-2423.

Pre-or Corequisite: CMSC-2133.

Covers the characteristics of data structures and their implementation. Topics include advanced lists, trees, hashing schemes, and introductory algorithm analysis. This course is normally offered in the fall semester.

### 3243 COMPUTERS AND SOCIETY

Prerequisite: 18 hours of computer science.

Provides insight into the role of the computer in modern society and its impact upon the individual. Topics include legal issues, dangers posed by computers, public perception of computers, and computer scientists' and futurists' views of computing. This course is offered in the fall semester of odd numbered years.

### 3423 INTRODUCTION TO COMPUTER GRAPHICS

Prerequisites: CMSC-2133 and CMSC-2423.

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.

### **3443 COMPUTER ORGANIZATION AND ARCHITECTURE**

Prerequisite: CMSC-2413.

An introduction to the organization and structuring of the major hardware components of computers. Emphasis is placed upon the mechanics of information transfer and control within a digital system and the fundamentals of logic design. Topics include the control unit, memory, ALU, I/O and interfacing. Some lab experience is included. This course is normally offered in the spring semester.

### **4103 DATA COMMUNICATIONS AND NETWORKING**

Prerequisite: CMSC-3443 or ELEC-3203.

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

### **4123 INTRODUCTION TO SOFTWARE TOOLS**

Prerequisite: CMSC-2423.

An introduction to a variety of computer-aided design and development tools, such as CASE tools, multimedia, software development aids, OOP, desktop publishing, and graphics software. This course is normally offered in the fall semester of even numbered years.

### **4214 SYSTEMS ANALYSIS AND DESIGN**

Prerequisites: CMSC-4323 and CMS-C4123.

An overview of the systems development life cycle with emphasis on the tools and techniques of information analysis and structured system design. Students work in a project team to complete a major systems development project. Lecture – 3 hours; Laboratory – 2 hours. This course is normally offered in the spring semester of odd numbered years.

### **4223 COMPUTER SIMULATION**

Prerequisite: CMSC-2423.

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.

### **4323 DATABASE PROCESSING**

Prerequisite: CMSC-2423.

An introduction to database systems. Topics include the design and implementation of the major database models. This course is normally offered in the fall semester of even numbered years.

### **4413 OPERATING SYSTEMS**

Prerequisites: CMSC-3233 and CMSC-3443 or ELEC-3203.

An examination of the major features of an operating system and its interaction with the hardware at the register level. Topics include memory management, job scheduling, and multi-programming. This course is normally offered in the spring semester.

### **4513 PROGRAMMING LANGUAGES**

Prerequisite: CMSC-2133 or CMSC-2423.

A study of the organization of programming languages. Topics include data types, sequence control, data control, and operating environment considerations. Several high-level languages will be studied. This course is normally offered in the spring semester of odd numbered years.

### **4713 ARTIFICIAL INTELLIGENCE**

Prerequisite: CMSC-3233.

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.

### **4811 SEMINAR IN COMPUTER SCIENCE**

Prerequisite: 35 hours of computer science. This course is normally offered spring semester.

A seminar designed to unite the varied elements of the computer science major. A written and oral presentation covering a current research topic in computer science is required. This course is offered as needed.

### **4900 INDEPENDENT STUDY IN COMPUTER SCIENCE**

Assigned research, readings and reports based on the need of the individual student. May be taken only with permission of the instructor and of the departmental chair. See departmental guidelines for further information. This course is offered as needed.

## **CULTURE (CLTR)**

### **1101 STUDY ABROAD SEMINAR-EUROPE**

This course is required for students participating in the Summer or Fall European Study Programs. Students conduct initial research on the countries they will visit as part of the program and complete the necessary pre-departure preparation. This course is normally offered in the spring semester

### **1103 ENGLISH CONVERSATION**

An intermediate course in the English language for non-speakers. The course includes a review of basic English grammar, readings in the language, pronunciation drills and conversation. It is normally open only to foreign students participating in the Ibaraki Christian University-OC Exchange Program. This course is normally offered in the spring semester.

### **1201 STUDY ABROAD SEMINAR-PACIFIC RIM**

This course is required for students participating in the Pacific Rim Study Program. Students conduct initial research on the countries they will visit as part of the program and complete the necessary pre-departure preparation. This course is normally offered in the spring semester.

### **1203 AMERICAN CULTURE**

An intermediate course in American culture for non-native speakers. Emphasis may vary (literature, art, history, etc.) according to the instructor teaching the course. It is normally open only to foreign students participating in the Ibaraki Christian University-OC Exchange Program. This course is normally offered in the spring semester.

### **1301 STUDY ABROAD SEMINAR - LATIN AMERICA**

This course is required for students participating in the Latin American study program. Students conduct initial research on the countries they will visit as part of the program and complete the necessary pre-departure preparation. This course is normally offered in the spring semester.

### **2103 LANGUAGE AND CULTURE-EUROPE**

A study of conversational German and European culture for students on the Fall European Studies program. Not applicable for degree language requirements. This course is normally offered in the fall semester.

### **2913 WESTERN ARTS AND CULTURE**

An analysis of the confluent events and expressions – historical, political, religious, philosophical, literary, artistic, and scientific – that shaped Western art, culture, and values. Important connections, interrelationships, and conversations among key texts, artistic works, historical events and interacting cultures. This course is normally offered in the fall semester.

## **EARLY CHILDHOOD EDUCATION (ECED)**

### **3013 NATURE AND CHARACTERISTICS OF**

#### **EARLY CHILDHOOD**

Prerequisites: admission to teacher education; EDUC-3213 (may enroll concurrently).

After studying the broad field of Early Childhood in relation to its multiple historical, philosophical and social foundations, the candidate will examine how these foundations influence current thought and practice. After exploring the characteristics of the young child from birth to age eight, the candidate will demonstrate observation techniques and planning skills related to developmentally appropriate practice. The candidate will also reflect on the role of the teacher and ethical considerations of the Early Childhood field. This course includes field experience which is scheduled within the time allotment of the class. (Students whose programs do not require admission to teacher education but require this course will receive credit for CHDV-3013, which cannot be applied to licensure requirements.) This course is normally offered in the fall semester.

### **3023 EMERGENT LITERACY**

Prerequisites: admission to teacher education; ECED-3013.

After surveying language development and techniques for facilitating that development as it emerges from infancy through the primary years, the candidate will plan and implement methods and activities to encourage the emergence of literacy. The candidate will also develop an understanding of and respect for the sociocultural diversity of literacy development as well as the interrelationships of culture, language, thought and the function of the home language in the development of young children. (Students whose programs do not require admission to teacher education but require this course will receive credit for CHDV-3023, which cannot be applied to licensure requirements.) This course is normally offered in the fall semester.

### **4013 COGNITIVE SKILLS**

Prerequisites: admission to teacher education; ECED-3013.

Practicum: 15 hours, ECED-4013P.

The candidate will apply current thought and practice concerning how children learn, from infancy through age eight, including activities surrounding integrated curriculum and the value of play. This course is normally offered in the spring semester.

### **4023 TOPICS IN EARLY CHILDHOOD**

Prerequisites: admission to teacher education; ECED-3013.

The candidate will describe and apply behavior and guidance theories for the young child from infancy through age eight. The candidate will also demonstrate techniques for planning and implementation of parental involvement, and understanding the children and their families in the context of society. (Students whose degree programs do not require admission to teacher education but require this course will receive credit for CHDV-4023, which cannot be applied to licensure requirements.) This course is normally offered in the spring semester.

#### **4112 EARLY CHILDHOOD PRACTICUM**

Prerequisites: admission to teacher education; ECED-3013; ECED-3023 and ECED-4013.

Practicum: 60 hours; ECED-4112P.

This field experience of 60 clock hours, divided between two NAEYC-accredited sites, gives the candidate the opportunity to engage in activities with young children and their families, based on what the candidate has studied in previous or concurrent early childhood coursework. This course is normally offered every semester.

### **ECONOMICS (ECON)**

#### **2113 MACROECONOMIC PRINCIPLES**

A study of the economic system as a whole, dealing with price levels, employment, the level of total production of goods and services and growth. The course includes study of the free enterprise system and of government monetary and fiscal policy. This course is normally offered every semester.

#### **2213 MICROECONOMIC PRINCIPLES**

Prerequisite: ECON-2113.

A study of specific economic units within a free enterprise economy such as individual consumers, businesses, or industries. The pricing and output of goods and services and the pricing and employment of labor and capital are studied. This course is normally offered every semester.

#### **4900 INDEPENDENT STUDY IN ECONOMICS**

Prerequisites: Junior or Senior standing and approval of the chair of the school. (1-3 hours).

Guided readings or research projects arranged in consultation with advisor. This course is offered as needed.

### **EDUCATION (EDUC)**

#### **3003 AMERICAN SIGN LANGUAGE I**

Students will be able to communicate with the hearing impaired by using visual-gestural language. The course emphasizes acquisition of receptive and expressive conversational skills through individual demonstration as well as cultural aspects of everyday life experience of the hearing impaired. This course is normally offered as needed.

#### **3121 ORIENTATION TO TEACHER EDUCATION**

Prerequisites: ENGL-1123, grade of C or above, GPA – 2.65.

Corequisite: concurrent enrollment in EDUC-3122.

Practicum: 33 hours.

Prospective candidates will be placed in a public school with a diverse student population to observe instructional classroom management and assessment strategies used by classroom teachers. Students will apply for admission to teacher education and will begin the Teacher Education Documentation Portfolio process required by Oklahoma. This course is normally offered every semester.

#### **3122 THE SCHOOL IN AMERICAN CULTURE**

Prerequisites: ENGL-1123 grade of C or above, GPA – 2.65.

Corequisite: concurrent enrollment in EDUC-3121.

Prospective candidates will be able to explain the role and contributions of education in a democratic society and to state their personal philosophies of education. Emphasis is placed on history, philosophies and current trends. Course must be completed with a grade of C or better to gain admission to teacher education. This course is normally offered every semester.

#### **3213 LEARNING, INSTRUCTION AND ASSESSMENT**

Prerequisite: admission to teacher education.

Corequisite: concurrent enrollment EDUC-3422 recommended.

Candidates will be able to relate contemporary theories of learning to instruction and develop skill in planning, instruction, and assessment of student learning. Focus: Oklahoma core curriculum and instructional strategies and plans based in Priority Academic Student Skills (PASS). (Majors in the College of Biblical Studies may enroll with permission of instructor as the only prerequisite.) This course is normally offered every semester.

#### **3422 EDUCATIONAL TECHNOLOGY**

Prerequisite: admission to teacher education.

Corequisite: concurrent enrollment EDUC-3213 recommended.

Candidates will be able to use computers to prepare instructional materials to enhance classroom instruction in other ways. Competence is developed in operating and effectively using equipment and materials commonly used by classroom teachers. This course is normally every semester and summer.

#### **3723 EDUCATION OF THE EXCEPTIONAL CHILD**

Prerequisite: admission to teacher education.

After surveying various types of exceptionalities found in children and adolescents, candidates will be able to suggest adaptations in classrooms and teaching strategies to meet the needs of PK-12 students who have identified exceptionalities. This course is normally offered every semester and some summers.

#### **4013 HUMAN RELATIONS AND BEHAVIOR MANAGEMENT**

Prerequisites: admission to student teaching; Overall GPA 2.75, Major GPA 3.0.

Corequisites: Concurrent enrollment in EDUC-4133 and student teaching.

Candidates will relate self-image and communications skills to classroom interaction while developing skill in using behavior management approaches based on discipline models which reflect current thinking. Emphasis is placed on warmth, empathy, and genuineness; cultural diversity issues are addressed by examining case studies and participating in appropriate activities. This course is normally offered every semester.

#### **4112 READING IN THE CONTENT AREAS**

Prerequisites: EDUC-3213; admission to teacher education.

Practicum: 33 hours (EDUC-4412P).

Candidates practice strategies crucial to developing students into independent comprehenders. The course focuses on the importance of reading in the various content area as central to accessing knowledge. This course is normally offered in the spring semester.

#### **4133 CRITICAL ISSUES IN EDUCATION**

Prerequisites: admission to student teaching; Overall GPA 2.75, Major GPA 3.0

Corequisites: concurrent enrollment EDUC-4013 and student teaching.

Candidates demonstrate skill in communicating with students, parents, colleagues, and others in the school community. Emphasis is placed on the role of the teaching profession in curriculum change and school improvement. Candidates will refine skills for planning effective units of instruction and daily lessons and in assessing student learning. This course is normally offered every semester.

#### **4413 METHODS OF TEACHING HEALTH AND PHYSICAL EDUCATION IN SECONDARY SCHOOLS**

Prerequisites: EDUC-3213 (PHED-4413); admission to teacher education. Practicum: 33 hours (EDUC-4413P).

Candidates develop materials for and demonstrate competency in instructional practices and assessment techniques used in health and physical education courses in grades 7-12. (Same as PHED-4413.) This course is normally offered in the spring semester.

#### **4422 ELEMENTARY MUSIC METHODS**

Prerequisites: EDUC-3213; admission to teacher education.

Methods for teaching general music in the elementary school. Course requirements include 18 hours of field experience. This course is normally offered in the fall semester odd years.

#### **4432 SECONDARY INSTRUMENTAL MUSIC METHODS**

Prerequisites: EDUC-3213; admission to teacher education.

Organization and administration of the instrumental curriculum, including teaching methods and materials for teaching instrumental music at secondary school levels. This course includes 18 hours of field experience. This course is normally offered in the fall semester even years.

#### **4442 SECONDARY VOCAL MUSIC METHODS**

Prerequisites: EDUC-3213; admission to teacher education.

Methods for teaching vocal music at secondary school levels. This course includes 18 hours of field experience. This is course normally offered in the fall semester even years.

#### **4463 METHODS OF TEACHING MATHEMATICS IN SECONDARY SCHOOLS**

Prerequisites: EDUC-3213; admission to teacher education.

Practicum: 45 hours (EDUC-4463P).

Methods and materials for instruction and evaluation in mathematics at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.

#### **4473 METHODS OF TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS**

Prerequisites: EDUC-3213; admission to teacher education.

Practicum: 45 hours (EDUC-4473P).

Methods and materials for instruction and evaluation in social studies at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.

#### **4533 METHODS OF TEACHING SCIENCE IN SECONDARY SCHOOLS**

Prerequisites: EDUC-3213; admission to teacher education.

Practicum: 45 hours (EDUC-4533P).

Methods and materials for instruction and evaluation in science at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.

#### **4553 METHODS OF TEACHING LANGUAGE ARTS IN SECONDARY SCHOOLS**

Prerequisites: EDUC-3213; admission to teacher education.

Practicum: 45 hours (EDUC-4553P).

Methods and materials for instruction and evaluation in language arts at secondary school levels. The course includes a practicum. This course is normally offered in the fall semester.



#### **4618 STUDENT TEACHING IN THE ELEMENTARY SCHOOL**

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0.

Corequisites: Concurrent enrollment in EDUC-4013 and EDUC-4133.

Candidates will demonstrate competencies required by Oklahoma for licensure in elementary education during two 6-week assignments in two grade levels in public schools in the Oklahoma City metropolitan area. Each OC candidate will be observed and evaluated regularly by a faculty member from the OC School of Education. Student teachers will meet weekly with university supervisors. This course is normally offered every semester.

#### **4718 STUDENT TEACHING IN THE SECONDARY SCHOOL**

Prerequisites: Admission to student teaching; major GPA 3.0.

Other: Concurrent enrollment in EDUC-4013 and EDUC-4133.

Candidates will demonstrate competencies required by Oklahoma for licensure in grades 7 – 12 during two 6-week assignments, one in a high school and one in a middle/junior high school, in the Oklahoma City metropolitan area. Each OC candidate will be observed and evaluated regularly by an OC School of Education faculty member. Student teachers will meet on campus weekly with university supervisors. This course is normally offered every semester.

#### **4818 STUDENT TEACHING IN THE ELEMENTARY AND SECONDARY SCHOOLS**

Prerequisites: Admission to student teaching; Overall GPA 2.75, Major GPA 3.0.

Corequisites: Concurrent enrollment in EDUC-4013 and EDUC-4133. Candidates will demonstrate competencies required by Oklahoma for licensure in grades K-12. Candidates will be assigned to a secondary school, either junior high/middle or high school, and to an elementary school (Oklahoma City metropolitan area) to complete 6 weeks of student teaching in each. Each OC candidate is observed and evaluated regularly by an OC School of Education faculty member. Student teachers will meet weekly with university supervisors. This course is normally offered every semester.

#### **4900 INDEPENDENT STUDY IN PROFESSIONAL EDUCATION**

Prerequisites: Junior or Senior standing; Approval of the Chair of the School of Education. Assigned reading and reports based on the needs of the individual student. This course is offered as needed.

## **ELECTRICAL ENGINEERING (ELEC)**

#### **3303 INTRODUCTION TO ELECTRONICS**

Prerequisite: Admitted into ECE.

Introduction to basic semiconductor devices: diodes, bipolar junction transistors and field-effect transistors. Discrete component electronics. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

#### **3313 ELECTRONICS**

Prerequisite: ELEC-3303.

Analog electronics. Operational Amplifiers and their applications. Discussion and application of basic analog Bipolar Junction Transistor (BJT) building blocks: amplifiers, current sources and output stages. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

#### **3403 CONTINUOUS-TIME LINEAR SYSTEMS**

Prerequisite: Admitted into ECE.

Time and frequency domain analysis of Linear Time-Invariant Continuous-Time (LTIC) systems. Representation of signals and systems through the use of Fourier series, Fourier and Laplace transforms. LTIC system modeling and realization of electrical systems with transfer functions and state-space variables. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

#### **3503 DISCRETE-TIME LINEAR SYSTEMS**

Prerequisite: Admitted into ECE.

Time and frequency domain analysis of Linear Time-Invariant Discrete-Time (LTID) systems using difference functions, Fourier transforms, and Z-transforms. LTID system modeling and system realization with transfer functions. Introduction to stochastic processes. Lecture – 3 hours. This course is normally offered in the fall semester.

#### **3523 DIGITAL SIGNAL PROCESSING**

Prerequisites: ELEC-3503.

Analysis, design, and implementation of discrete-time systems. FIR/IIR systems, parametric and non-parametric power spectrum estimation and optimal filtering, finite-word length effects. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

#### **3613 ELECTROMAGNETIC FIELDS**

Prerequisite: Admitted into ECE.

A study of Maxwell's equations and applications; EM waves, transmission lines, and introduction to antennas. Lecture – 3 hours; Laboratory – 0 hours. This course is normally offered in the spring semester.

#### **4113 COMMUNICATION SYSTEMS**

Prerequisite: ELEC-3403 and ELEC-3503.

Design and analysis of analog and digital communication systems in the presence noise. Topics include capacity analysis, performance criteria, modulation systems and link analysis. Lecture – 3 hours. This course is normally offered in the spring semester of odd-numbered years.

#### **4323 ELECTRONIC DEVICES**

Prerequisite: ELEC-3313.

Introduction to physics of semiconductor devices. The three electronic devices from Introduction to Electronics are brought from basic physics to current-voltage characteristics and circuit models. Lecture – 3 hours. This course is normally offered in the spring semester.

#### **4423 CONTROL SYSTEMS**

Prerequisite: ELEC-3403.

Control system theory of continuous time systems. Modeling physical systems through transfer functions and state space descriptions. System performance measures including stability, transient response, steady state response, and sensitivity. Classical and modern control techniques; root locus, frequency response methods and PID control. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester of even-numbered years.

#### **4523 REAL-TIME SIGNAL PROCESSING**

Prerequisite: ELEC-3523.

Design and implementation of real-time embedded digital signal processing systems. Applications chosen from among communications, radar, speech processing, and biological signal processing. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

#### **4613 RADIO FREQUENCY ENGINEERING**

Prerequisite: ELEC-3613.

Analysis and design of Radio Frequency circuits and systems. Network analysis parameters for system level RF design will be used to bridge earlier field theory analysis to modern RF circuit design techniques and software. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

#### **4732 SYSTEMS DESIGN I**

Prerequisite: Consent of ECE department.

A recap and extension of problem-solving skills introduced in earlier courses using a systems design approach; to prepare the student for the capstone design project work of ELEC-4743 and ELEC-4753; topics include engineering design terminology, methodology, and procedures; technical memos and reports; safety, ethics, information gathering, and team dynamics. Significant emphasis on oral presentations is included. Laboratory – 3 hours. (Same as MECH-4732 and CENG-4732.) This course is normally offered in the spring semester.

#### **4743 SYSTEMS DESIGN II**

Prerequisite: ELEC-4732. Corequisite: ENGR-3213.

An implementation of the design methodology covered in Systems Design I. Applications of research and design relating to real world or industry problems; interaction with other fields of engineering and science. ELEC-4743 and ELEC-4753 constitute a single two-semester project experience.

Laboratory – 6 hours. (Same as MECH-4743 and CENG-4743.) This course is normally offered in the fall semester.

#### **4753 SYSTEMS DESIGN III**

Prerequisite: ELEC-4743.

A continuation and completion of the capstone design project begun in ELEC-4743. Students not successfully completing the entire project must normally retake ELEC-4743 and ELEC-4753 with a new project assignment. Laboratory – 6 hours. (Same as MECH-4753 and CENG-4753.) This course is normally offered in the spring semester.

#### **4820 INTERNSHIP FOR ENGINEERING PRACTICE**

The engineering programs encourage all students to participate in at least one summer of engineering internship work. The engineering internship experience is very important to providing real-world application of the classroom experience and also has become an expectation by employers of engineers internationally. This course allows international students in F-1 status majoring in engineering at OC to participate in Curricular Practical Training. Enrollment in this course will be under the supervision of an individual engineering professor. A journal or summary paper of the internship experience will be required at the conclusion of the employment period. 1 to 3 credit hours. This course is offered on a case by case basis through coordination with the international office.

## **ELEMENTARY EDUCATION (ELEM)**

#### **3233 LITERACY I: EARLY DEVELOPMENT OF LITERACY IN CHILDREN**

Prerequisite: Admission to teacher education.

Practicum: 20 hours (ELEM-3233P).

Candidates will instruct individual students in a classroom setting. They will construct and present motivating lessons and assess and reflect on student learning. Focus is on the use of early developmental stages of literacy elements, including reading, writing (process, types, grammar, punctuation, spelling, handwriting), literature, listening,



speaking, viewing, visually representing, and assessment. This course is normally offered in the spring semester.

### **3323 MOVEMENT AND FINE ARTS**

Prerequisites: Admission to teacher education or concurrent enrollment in EDUC-3121 and EDUC-3122.

Candidates design materials, demonstrate instructional methods, and create activities for integrating movement, art and music, and health and fitness activities into the PK and elementary classroom. This course is normally offered every semester.

### **3333 LITERACY II: LITERACY STRATEGIES FOR PRIMARY GRADES**

Prerequisites: Admission to teacher education; ELEM-3233.

Corequisites: concurrent enrollment ELEM-3632, ELEM-3733, ELEM-3832; ELEM-3900P.

Candidates will construct and present motivating lessons to small groups and whole classes of primary students in a classroom setting and will assess and reflect on student learning. Focus is on a continuation of development of knowledge, understanding, and use of the early developmental stages of literacy elements. Placement in a public school setting will be included in the scheduling of the class. This course is normally offered in the fall semester.

### **3632 SOCIAL STUDIES FOR PRIMARY STUDENTS**

Prerequisites: Admission to teacher education; EDUC-3213.

Corequisites: concurrent enrollment in ELEM-3333, ELEM-3733, ELEM-3832; ELEM-3900P.

Candidates will rely on current thought and trends in social studies instruction to develop teaching strategies which engage students in learning and which encourage the development of a multicultural view. This course is normally offered in the fall semester.

### **3733 MATHEMATICS FOR PRIMARY STUDENTS**

Prerequisites: Admission to teacher education; MATH-2913.

Corequisites: concurrent enrollment in ELEM-3333, ELEM-3632, ELEM-3832; ELEM-3900P.

Candidates will apply their knowledge of numeration and their number sense and will be able to use manipulatives in teaching primary students number concepts and basic problem-solving skills. Content emphasis is placed on teaching the four basic mathematical operations. This course is normally offered in the fall semester.

### **3832 SCIENCE FOR PRIMARY STUDENTS**

Prerequisites: Admission to teacher education; EDUC-3213.

Corequisites: concurrent enrollment ELEM-3333, ELEM-3632, ELEM-3733; ELEM-3900P.

Candidates will gain knowledge about methods, materials, and experiences that enable them to teach with an awareness and understanding of the impact of science in the world of the primary student. The focus is hands-on instruction for the biological, earth, and physical sciences. A school-based experience is incorporated. This course is normally offered in the fall semester.

### **3900P PRIMARY PRACTICUM**

Concurrent enrollment ELEM-3333, ELEM-3632, ELEM-3733, ELEM-3832.

A primary grade (K-3) practicum, 60 hours. The focus of the practicum is for the candidate to construct and present lessons in literacy, math, science, and social studies at the primary level. Supervision and assessment of the candidate will be conducted by a university supervisor and the classroom teacher. This course is normally offered in the fall semester.

### **4242 SOCIAL STUDIES FOR INTERMEDIATE STUDENTS**

Prerequisites: Admission to teacher education; EDUC-3213.

Corequisites: concurrent enrollment ELEM-4342, ELEM-4433, ELEM-4443; ELEM-4900P.

Candidates will develop teaching strategies, including hands-on activities that integrate knowledge and methodology from history and social studies and are appropriate for intermediate classrooms. Emphasis is placed on current thought and practice in social studies instruction for teaching students to use a wide variety of research sources to create oral, written and pictorial presentations. This course is normally offered in the spring semester.

### **4342 MATHEMATICS FOR INTERMEDIATE STUDENTS**

Prerequisites: Admission to teacher education; MATH-2913.

Corequisites: concurrent enrollment ELEM-4242, ELEM-4433, ELEM-4443; ELEM-4900P.

Candidates will develop strategies for teaching the construction and exploration of estimation strategies. Content emphasis is placed on teaching concepts of measurement, geometry, algebra, statistics, probability, problem solving, reasoning, and communication of mathematical connections. This course is normally offered in the spring semester.

### **4433 LITERACY III: LITERACY STRATEGIES FOR INTERMEDIATE STUDENTS**

Prerequisites: Admission to teacher education; ELEM-3333.

Corequisites: concurrent enrollment ELEM-4242, ELEM-4342, ELEM-4443, ELEM-4900P.

Candidates will develop and present motivating lessons to small groups and whole classes

of intermediate students in public school classrooms and will assess and reflect on gains in student learning. A school-based, competency-driven experience is incorporated. This course is normally offered in the spring semester.

### **4443 SCIENCE FOR INTERMEDIATE STUDENTS**

Prerequisite: Admission to teacher education.

Corequisites: concurrent enrollment ELEM-4433, ELEM-4242, ELEM-4342; 4900P.

Candidates will be able to use inductive and deductive strategies involving observation, scientific investigation, interpretation of findings, and communication of results while engaging in hands-on instruction. Biological, earth and physical sciences are viewed as an integrated discipline. A school-based experience is incorporated. This course is normally offered in the fall semester.

### **4543 LITERACY IV: ASSESSMENT STRATEGIES FOR INTERMEDIATE GRADES 4-8**

Prerequisites: Admission to teacher education; ELEM-4433.

Practicum: 24 hours (ELEM-4543P).

Candidates will know, understand, and use current thought and practice regarding reading assessment practices and intervention practices such as prescriptive teaching procedures. The candidates will apply the knowledge and understanding gained in a classroom setting with individual, small and whole group situations. This course is normally offered in the fall semester.

### **4900P INTERMEDIATE PRACTICUM**

Concurrent enrollment ELEM-4242, ELEM-4342, ELEM-4433, ELEM-4443.

An intermediate grade (4-5) practicum, 60 hours. The focus of the practicum is for the candidate to construct and present lessons in literacy, math, science, and social studies at the intermediate level. Supervision and assessment of the candidate will be conducted by a university supervisor and the classroom teacher. This course is normally offered in the spring semester.

## **ENGINEERING SCIENCE (ENGR)**

### **1113 FOUNDATIONS OF ENGINEERING MATHEMATICS**

Prerequisite: Math ACT of 23 or equivalent

A survey of the key areas of mathematics as they apply to the field of engineering. Specific emphasis will be placed on algebra, trigonometry, calculus, and differential equation fundamentals. Active learning exercises will be utilized throughout the course to demonstrate the utility of the math being learned. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

### **1122 ENGINEERING COMPUTING**

Corequisite: ENGR-1113, MATH-1213 or MATH-2114.

An introduction to software that will be required in the engineering curriculum. Excel, MathCAD, and MATLAB will be covered. Students will design and build a small system in class which will then be used as the source problem for applying the software tools under study. Laboratory – 6 hours. This course is normally offered in the fall semester.

### **1132 PROCEDURAL PROGRAMMING**

Prerequisite: ENGR-1113

An introduction to structured programming focusing on algorithm development and implementation. Lecture – 1 hour; Laboratory – 3 hours. This course is normally offered in the fall semester.

### **1242 ENGINEERING FUNDAMENTALS**

requisite: ENGR-1122.

Fundamentals of computer, electrical and mechanical engineering design and analysis. Students will use design principles to complete an electromechanical system. Laboratory – 6 hours. This course is normally offered in the spring semester.

### **1252 INTRODUCTION TO SOLID MODELING**

Prerequisite: ENGR-1113

An introduction to solid modeling, including discussion of the elements required for correct and accurate mechanical drawings. A semester project involving the design and analysis of a component is required. A survey of computer aided design tools is provided. This course is normally offered in the spring semester.

### **2113 ECE MATHEMATICS**

Prerequisite: MATH-2114. Introduction to probability, random variables, statistics and linear algebra. Lecture-3 hours. This course is normally offered in the fall semester.

### **2313 STATICS**

Prerequisite: PHYS-2513.

This class is the first of three courses in the study of mechanics. Statics is the study of forces applied to structures. An understanding of statics is a prerequisite for studying strength of material and dynamics. Lecture – 3 hours. This course is normally offered in the fall semester.

### **2433 THERMODYNAMICS I**

Corequisite: PHYS-2613.

An introduction to the analysis of thermal processes, devices and systems. Thermodynamic properties of pure substances; First and Second Law applications for closed and open systems; power and refrigeration cycle analysis. Lecture – 3 hours. This course is normally offered in the spring semester.

**2523 DYNAMICS**

Prerequisite: ENGR-23313.

A study of force action related to displacement, velocity and acceleration of particles and rigid bodies using translation and rotation, work and energy and impulse and momentum principles. Lecture – 3 hours. This course is normally offered in the fall semester.

**2533 STRENGTH OF MATERIAL**

Prerequisite: ENGR-2313.

This class is the second of three courses in the study of mechanics. Strength of materials is the study of stress and strain in structures caused by the application of forces and moments. An understanding of strength and materials is a prerequisite for studying machine design and doing engineering structural design. Lecture – 3 hours. This course is normally offered in the spring semester.

**2544 INTRODUCTION TO DIGITAL SYSTEMS**

Prerequisite: ENGR-1242.

Develops a fundamental understanding of combinational and sequential digital circuits and the design of digital systems using various levels of modern IC technology. Lecture – 3 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

**2614 ELECTRICAL CIRCUIT ANALYSIS**

Prerequisite: ENGR-2544.

Introduction of electrical components (inductors, capacitors, resistors) and electronic components [operational amplifiers and the bipolar junction transistor (BJT)] in circuit applications. Network time-domain analysis and first and second-order system response. AC phase and frequency-domain system response; analysis of power circuits and systems. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the spring semester.

**2623 MECHANICAL ENGINEERING INSTRUMENTATION**

Prerequisite: PHYS-2613.

Corequisite: MATH-3013.

Introduction to mechanical engineering instrumentation and electric circuit analysis. Kirchhoff's loop and node laws, operational amplifier circuits, instrument performance characteristics, error analysis, and digital data acquisition systems. Lecture – 3 hours. This course is normally offered in the spring semester.

**3023 ENGINEERING MATH**

Prerequisite: MATH-2214.

Topics in mathematics with direct application to the solving of engineering problems. Discrete statistics and random variables. Lecture – 3 hours. This course is normally offered in the spring semester.

**3213 ENGINEERING ECONOMICS**

Corequisites: CENG-4743, ELEC-4743, OR MECH-4732.

History, money supply, supply and demand, time value of money, money management, economic measurement, break-even analysis, system analysis and decision-making in engineering and management. Lecture – 3 hours. This course is normally offered in the fall semester. This course is normally offered every semester.

**3311 EXPERIMENTAL MECHANICS**

Prerequisite: ENGR-2623 and ENGR-2533.

Corequisite: ENGR-2523.

An investigation of experimental methods applied to the field of Solid Mechanics. Emphasis will be placed upon collecting, analyzing, and interpreting experimental results to foster critical thinking and upon experimental planning. Laboratory – 3 hours. This course is normally offered in the fall semester.

**ENGLISH (ENGL)****1123 COMMUNICATION I: WRITTEN COMMUNICATION**

The first course in college-level writing using contemporary technology. The course emphasizes the composing process, analytical thinking, various types of writing, basic research methods and documentation. Writing includes a journal, a personal essay, a research report, analytical essays and a short research paper sustaining a thesis. Students enrolled in ENGL-1123-Communication I: Written Communication must make a grade of C or better in order to enroll in COMM-1213-Communication II: Oral Communication. This course is normally offered every semester.

**1134 COMMUNICATION FOR ENGINEERS**

Written and oral communication for engineers including essay and report writing, structuring essays and oral presentations, informative and persuasive speaking, presentation skills and basic principles of interpersonal and group communication. This course is normally offered every semester.

**1331 TEFL EXPERIENCE**

Supervised private tutoring of non-native English speakers. To receive credit, a student must work not less than 60 hours in a semester, part of which is preparation for the tutoring sessions and evaluation of the tutoree's work. This course is normally offered every semester.

**2113 COMMUNICATION III: RESEARCH AND PRESENTATION**

Prerequisites: ENGL-1123 and COMM-1213 with a grade of "C" or better.

The final course in the communication series, emphasizing both oral and written presentation of research using contemporary technology. Students are taught to think critically in analyzing texts and evaluating sources and to communicate their ideas in an appropriate medium and style. This course includes both written and oral presentation of an extensive research project. This course is normally offered every semester.

**2213 PERSPECTIVES IN LITERATURE**

Prerequisite: ENGL-2113 with a grade of "C" or better.

An introduction to great literature of the world, focusing on the deepening and broadening of the students' perspectives to help them become thinkers, readers, and writers for life. (CLEP test credit will not be accepted for this course.) This course is normally offered every semester.

**3013 LITERARY CRITICISM**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

An introduction to critical methods with special attention to the elements of literary study and analysis, the major critical documents and present critical approaches. Recommended as the first course in the English major. This course is normally offered in the fall semester.

**3123 WORLD LITERATURE I: CLASSICAL TO RENAISSANCE**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A study of representative world masterpieces through the sixteenth century. This course is normally offered in the fall semester of even numbered years.

**3133 WORLD LITERATURE II: RENAISSANCE TO MODERN**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A study of representative world masterpieces from the past four centuries. This course is normally offered in the spring semester of odd numbered years.

**3153 ENGLISH LITERATURE SURVEY I**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A study of the major works of English literature from the Danish invasion to the close of the sixteenth century. This course is normally offered in the fall semester of odd numbered years.

**3253 ENGLISH LITERATURE SURVEY II**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A study of the major works of English literature from the late Renaissance through the Romantics. This course is normally offered in the spring semester of even numbered years.

**3313 INTRODUCTION TO LINGUISTICS**

Prerequisite: ENGL-2113 with a grade of "C" or better.

The basic concepts, scope and methodology of the science of language in its descriptive and historical aspects as well as an introduction to the phonemic, morphemic and syntactical features of language. The course also considers the applications of modern linguistics. This course is normally offered in the fall semester of even numbered years.

**3353 ENGLISH LITERATURE SURVEY III**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A study of the major works of English literature from the Victorians to the present. This course is normally offered in the spring semester of odd numbered years.

**3413 STUDIES IN WORLD LITERATURE**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A study of one major genre (fiction, poetry, drama, or film) as it appears in major world texts. The course may be repeated as the content changes. This course is normally offered in the spring semester.

**3443 BIBLE AS LITERATURE**

In this course students will exam the Bible not only as God's inspired word, but also as a literary text. Critiques and analyses from Biblical scholars will be explored. In addition, students will write about their personal interpretations of the Bible. Same as BIBL-3453. This course is normally offered in the spring semester.

**3493 TECHNICAL WRITING**

Prerequisite: ENGL-2113 with a grade of "C" or better.

An introduction to scientific, business and technical writing, including experience in conducting research and writing major types of reports as well as letters and memos. The course also includes basic information regarding graphics and design. This course is normally offered in the fall semester.

**3523 CREATIVE WRITING I**

Prerequisite: ENGL-2113 with a grade of "C" or better.

A study of the theory of creative writing and practice in a workshop setting in the composition of fiction, poetry and/or drama. The course serves as an introduction to the sources of creative writing, the characteristics of the major genres and the process of revising and editing. This course is normally offered in the spring semester of even numbered years.

**3533 CREATIVE WRITING II**

Prerequisites: ENGL-2113 with a grade of "C" or better and ENGL-3523.

An advanced study and practice of the craft of one major genre (usually fiction, poetry or drama). The course is a workshop in practicing the particular features of the genre under study and a study of the process of revising, editing and marketing manuscripts. This course is normally offered in the spring semester of odd numbered years.

**3673 AMERICAN LITERATURE SURVEY I, BEFORE 1865**

Prerequisite: ENGL-2113 with a grade of C or better. Non-majors by permission only.

A study of early American literature from the writings of the explorers and colonists through Edgar Allan Poe. This course is normally offered in the fall semester of even numbered years.

**3713 STRUCTURE OF THE ENGLISH LANGUAGE**

Prerequisite: ENGL-2113 with a grade of "C" or better.

An advanced analysis of English grammar, emphasizing constituent structure, levels of usage, and application to writing. This course is normally offered in the fall semester of even numbered years.

**3773 AMERICAN LITERATURE SURVEY II, 1865-1914**

Prerequisite: ENGL-2113 with a grade of "C" or better. Non-majors by permission only.

A study of the major American authors of Romanticism, Realism, and Naturalism. This course is normally offered in the spring semester of odd numbered years.

**3803 LITERATURE OF THE PACIFIC RIM**

Prerequisite: ENGL-2113 with a grade of "C" or better.

A survey of poetry, fiction and drama of the cultures visited as a part of the Pacific Rim Study Abroad Program. Notes on all readings will be kept in a journal. A major paper will be submitted on a topic related to the readings. (Counts as a core literature course and for a major or minor in English). This course is normally offered every fall in conjunction with the Pacific Rim Program.

**3813 INDIVIDUALIZED WRITING**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Extensive practice, analysis and evaluation of writing in a seminar setting. Designed for beginning and advanced expository writers. This course is normally offered in the fall semester of odd numbered years.

**3873 AMERICAN LITERATURE SURVEY III, 1914-PRESENT**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A study of major American authors and literary movements from WWI to the present with English Lit II. This course is normally offered in the spring semester of even numbered years.

**4103 MODERN DRAMA**

Prerequisite: ENGL-2113 with a grade of "C" or better.

A study of major works, themes, and movements in modern drama. This course is offered as needed.

**4113 STUDIES IN CHAUCER**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A detailed study of Chaucer's works and the modern criticism of Chaucer in the original middle English. This course is normally offered in the fall semester of even numbered years.

**4213 STUDIES IN SHAKESPEARE**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A thorough analysis of at least 11 of Shakespeare's plays and the major criticism. This course is normally offered in the spring semester.

**4413 STUDIES IN ENGLISH LITERATURE**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A detailed study of a specific genre, movement or writer in English literature. This course may be repeated as the content is changed. This course is normally offered in the spring semester.

**4513 STUDIES IN AMERICAN LITERATURE**

Prerequisite: ENGL-2113 with a grade of "C" or better. Non-majors by permission only.

A detailed study of a specific genre, movement or writer in American literature. This course may be repeated as the content is changed. This course is normally offered in the fall semester.

**4633 INTERCULTURAL COMMUNICATION I**

Prerequisite: ENGL-2113 with a grade of "C" or better.

A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. ENGL-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. (Same as COMM-4633, MISS-4633 and SOCI-4633.) This course is normally offered in the spring semester of odd numbered years.

**4643 INTERCULTURAL COMMUNICATION II**

Prerequisite: ENGL-2113 with a grade of "C" or better.

A continuation of ENGL-4633, typically taught while a student is living in a foreign culture. (Same as MISS-4643 and SOCI-4643.) This course is normally offered in the fall semester of odd numbered years.

**4713 METHODS OF TEFL**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Survey of objectives, methods and philosophies of the teaching of English to non-native speakers of English, including practice in the development of teaching materials. This course is normally offered in the spring semester of even numbered years.

**4733 SENIOR CAPSTONE**

Prerequisites: Senior standing and departmental approval.

A capstone course giving Language and Literature majors the opportunity to synthesize previous work, to interact with the faculty at an advanced level and to practice research skills in preparation for graduate school or for entry into their profession. GRE testing required at cost to student. This course is normally offered in the spring semester of even numbered years.

**4813 SPECIAL PROBLEMS**

Prerequisite: ENGL-2113 with a grade of "C" or better.

Non-majors by permission only.

A detailed study of a specific genre, movement or writer in literature, of genre writing or rhetoric; of culture, language or methodology. This course may be repeated as the content is changed. This course is normally offered every semester.

**4851 PRACTICUM IN WRITING/RESEARCH/EDITING**

Prerequisite: ENGL-2113.

Practical experience working with a publisher of books or periodicals (e.g., work with a textbook publisher, Soundings or Christian Chronicle.) This course is normally offered as needed.

**4863 TEFL STUDENT TEACHING PRACTICUM**

Prerequisites: ENGL-3313, ENGL-3713, ENGL-4633 and ENGL-4713.

Observation and teaching experience in an ESL classroom or extensive practice in private tutoring with formal supervision. This course is normally offered as needed.

**4900 INDEPENDENT STUDY**

A reading, research or writing project related to a student's special interest or need. The course may be taken only by juniors or seniors with approval of the departmental chair and agreement by an English instructor to direct the project. This course is normally offered as needed.

**FAMILY STUDIES (FMST)****1113 INTRODUCTION TO FAMILY STUDIES**

A comprehensive introduction to the subjects which comprise the study of human development and family betterment. It covers, in very general terms, the spectrum from conception to death and takes a general look at professional possibilities within this broad field. The research base of the discipline is introduced as the student learns the difference between research-based and expository publication. Common statistical terms are studied so that the student can read research journals with elementary understanding. This course is normally offered every semester.

**2423 PARENT-CHILD RELATIONS**

Prerequisite: FMST-1113.

Opportunities, responsibilities, and problems faced by parents in guiding the development of children, with emphasis on recent research in the area of parent-child relationships. (Same as SOCI-2423.) This course is normally offered in the spring semester.

**3453 PERSONAL AND FAMILY FINANCE**

This course is designed to help individuals and families learn the basics of managing their finances in a biblical way. Topics covered in this class include: budgeting, investing, insurance, buying your own home, and teaching your children about money. (Same as BIBL-3453.) This course is normally offered every semester.

**3513 CHILD WELFARE**

Prerequisite: FMST-1113.

A study of child welfare services. Particular attention is given to the areas of foster care, adoption, institutional care, care of unwed mothers and protective services. This course is normally offered in the spring semester.



### **3523 HUMAN SEXUALITY**

Prerequisite: FMST-1113.

An introductory course including considerations of human sexual development. The course is intended to present a decision-making model with which individuals can make decisions and accept responsibility for their actions. This course is normally offered in the fall semester.

### **3533 FAMILY LIFE EDUCATION**

Prerequisite: FMST-1113.

This course is designed to provide students with an applied learning experience in the design, development, and implementation of programs geared toward helping children and families. Areas of emphasis include program planning, theory, evaluation, mass media communication, and principles of teaching / instruction. This course is normally offered in the spring semester even numbered years.

### **3613 ADOLESCENCE AND EARLY ADULTHOOD**

Prerequisite: PSYC-1113.

This course covers the developmental process of adolescence and early adulthood. The course focuses on biological, cognitive, and socio-emotional issues as they pertain to the ongoing changes in this time of the life cycle. Attention will be given to issues of gender, culture, family relationships, peer relationships, sexuality, and education. Special attention will also be given to issues that young adults face as they venture into collegiate life, career exploration and new family roles. (Same as PSYC-3613.) This course is normally offered in the fall semester of odd numbered years.

### **3723 GERONTOLOGY**

Prerequisite: FMST-1113.

A study to include physical and health factors in aging; psychological aspects of aging; marriage, family, and community relationships of older persons; economic and vocational factors in aging; perspectives on death, dying and grief; aging and institutional care; aging and the law; and the future of social intervention, both public and private. (Same as PSYC-3723 and SOCI-3723.) This course is normally offered in the spring semester.

### **3913 FAMILY DEVELOPMENT**

Prerequisite: FMST-1113.

An introduction to the family development life cycle. The course will focus on the stages that marriages and families progress through and the associated tasks that need to be addressed and successfully negotiated. Attention will be given to dating, marriage, having children, children going to school, adolescence, empty nest and issues of caretaking, grandparenting and aging. The course will also explore the related crises that develop around these developmental transition periods. This course is normally offered in the fall semester.

### **3933 CYBERNETICS AND SYSTEMS THEORY**

Prerequisite: FMST-1113.

An introduction to the major underlying theoretical foundations of family therapy. The course will explore the historical development of systems theory and cybernetics from its origins in the 1940s in the thinking of mathematicians, physicists, biologists, and engineers to the pioneering work of Bateson and his colleagues in the late '50s and their application of cybernetics to the family. The course will also introduce the work of Murray Bowen. The basic concepts of systems theory will be discussed and contrasted with the more common Western, analytical approach which has dominated the thinking in psychology since the time of Freud. (Same as PSYC-3933.) This course is normally offered in the fall semester.

### **4123 DIVORCE AND STEPFAMILY RELATIONSHIPS**

Prerequisite: FMST-1113.

An overview of the issues pertaining to divorce and stepfamily relationships. We will address the consequences of divorce on children and adults as well as ways in which adults can create a more healthy post divorce environment for their children. We will consider the major issues surrounding stepfamilies in today's society and how healthy relationships can be established in these environments. This course is normally offered in the fall semester.

### **4323 INTRODUCTION TO MARITAL AND FAMILY THERAPY**

Prerequisite: FMST-1113.

An introduction to the field of marital and family therapy. It will present the history of systems therapy, including the importance of systems theory to the continuing development of the discipline. Special emphasis will be placed on the current status of marital and family therapy including the importance of constructivist theories. The course will also present the major theories of marital and family therapy that have defined the field for the last 40 years. This will be a systemic, experiential, discussion-based class that will require active participation from each student. (Same as PSYC-4323.) This course is normally offered in the spring semester of even numbered years.

### **4653 RESEARCH SEMINAR**

Prerequisites: FMST-1113 and PSYC-4623.

The capstone course in the Family Studies program. Students will learn SPSS – the Statistical Package for the Social Sciences – and complete their own individual research project and paper, including the collection and analysis of data. The final goal will be making a presentation of their findings to the appropriate student convention. Much of the class will consist of individual instruction and laboratory work. (Same as PSYC-4653.) This course is normally offered in the spring semester.

### **4713 FAMILY STUDIES PRACTICUM**

Prerequisite: FMST-1113.

A practicum that is a self-selected experience from among approved settings within the areas of child development or gerontology. Commercial infant or child care, child abuse facilities, Department of Human Services facilities, retirement or assisted living facilities are possible acceptable settings. A total of 126 clock hours (9 hours per week) during a semester is required. This course is offered as needed.

### **4733 PROFESSIONAL, ETHICAL AND LEGAL ISSUES**

Prerequisites: FMST-1113 and senior standing.

A study of the contemporary ethical considerations, legal standards and professional issues that influence the work of psychologists, counselors, and other mental health officials. Specific attention will be given to the Ethical Standards of the APA, ACA, and AAMFT, as well as Oklahoma State Law governing the behavior of researchers and psychotherapists. The course will focus on specific ethical dilemmas throughout the class, including – among others – confidentiality, dual relationships, professional relationships, assessment and research. (Same as PSYC-4733.) This course is normally offered in the fall semester of odd numbered years.

### **4900 INDEPENDENT STUDY IN FAMILY STUDIES**

Prerequisite: FMST-1113.

Provides mature students an opportunity for individual research and guided readings. (1-3 hours) This course is offered as needed.

## **FINANCE (FINC)**

### **3313 FINANCIAL MANAGEMENT**

Prerequisites: ECON-2113, ACCT-2213.

A study of the objectives and techniques of the finance function of the firm. Financial ratios, cash budgets, break-even analysis, leverage, quantitative tools, security evaluation, cost of capital, capital budgeting, working capital management, sources of capital for expansion and evaluation of the capital structure are studied. This course is normally offered every semester.

### **3513 MONEY AND BANKING**

Prerequisites: ECON-2113 and ECON-2213.

A study of the nature, history, and functions of money and monetary institutions. Particular attention is given to the central banking system, the Federal Reserve System, free enterprise, government controls, the money supply, foreign exchange, and the interrelationships between monetary theory and the theories of prices and unemployment. This course is normally offered in the fall semester.

### **3613 INVESTMENTS**

Prerequisite: MGMT-3513.

A practical study of securities and securities markets. The development of the models for the valuation of stocks and bonds as well as alternative investments such as options, warrants, convertible securities, futures, mutual funds, and puts and calls. This course is normally offered in the spring semester.

### **3713 INTERNATIONAL FINANCE**

Prerequisites: FINC 3313

Analyzes financial problems corporations face that result from operating in an international environment. Major topics covered are corporate strategy and the decision to invest abroad, forecasting exchange rates, international portfolio diversification, managing exchange risk, exposure management, cost of capital and financial structure in the multinational firm, and sources of financing. This course is normally offered in the spring semester.

### **3813 PERSONAL FINANCE**

Prerequisites: FINC 3313

An analysis of financial management for individuals and families. Areas covered include financial planning and budgeting, financial products and services, and risk management. This course is normally offered in the spring semester.

### **4113 ADVANCED FINANCIAL MANAGEMENT**

Prerequisite: MGMT-3513.

A continuation of the basic financial management course. The course involves an in-depth study of the theories and practices related to the financial administration of the firm. Areas covered include valuation model, risk analysis, capital budgeting, capital structure and dividend policy, long term financing decisions, and asset management. This course is normally offered in the fall semester.

### **4313 FINANCIAL MARKETS AND INSTITUTIONS**

Prerequisite: MGMT-3513.

An analysis of financial markets and institutions. Areas covered include non-bank financial institutions, the nature and importance of various financial markets, and global issues with international markets and institutions. This course is normally offered in the spring semester.

### **4513 TOPICS IN FINANCE**

Prerequisites: FINC-3513, FINC-3613, FINC-4113, and FINC-4513.

The capstone course for finance. In addition to emphasizing portfolio management and international finance, the course covers the most current topics of investment finance. This course is normally offered in the spring semester.



#### **4713 PRINCIPLES OF INSURANCE**

Prerequisites: FINC 3313

Comprehensive study of insurance and third party transfer of risk. This course is normally offered in the fall semester.

#### **4900 INDEPENDENT STUDY IN FINANCE**

Prerequisites: Instructor and Dean approval.

Assigned readings, reports and research projects based on the needs of the student. (1-3 hours) This course is offered as needed.

### **FINE ARTS (FINE)**

#### **2903 AESTHETICS**

A field study of the great art, architecture, music and drama of Study Abroad destinations. By permission only. This course is normally offered in the fall semester and summer.

#### **2913 PERSPECTIVES IN THE FINE ARTS**

This course is an overview of the interaction between the disciplines of visual art, theater, and music. Classes will be team-taught by faculty from each of the three disciplines. A thematic format is followed to examine the major contents common to these media. Significant eras, artists, and works will be shown and discussed. The goal of the course is to help students see the interrelationship of the arts with all areas of life. The course will examine many cultures, both Western and non-Western, and will provide students with a greater appreciation of the arts as essential tools of human understanding. This course is normally offered every semester.

### **FRENCH (FRNC)**

#### **1113 BASIC FRENCH I**

Basic principles and practice of speaking, understanding, reading and writing French and an introduction to French culture for those with no background in French. This course is normally offered in the fall semester.

#### **1213 BASIC FRENCH II**

Prerequisite: FRNC-1113, one year of French in high school or the equivalent with permission of the instructor. This course is normally offered spring semester. Continuation of Basic French I, enabling the student to read, write, understand and respond in basic French and to be aware of cultural differences. This course is offered as needed.

### **GENERAL SCIENCE (GNSC)**

#### **1711 FRESHMAN SCIENCE SEMINAR**

A seminar course for all freshman natural science majors, introducing students to careers in science, methods and opportunities for research, science faculty, and tutoring programs. This course is normally offered in the fall semester.

#### **2133 GENERAL PHYSICAL SCIENCE**

A survey course including basic physics, chemistry, astronomy, and the philosophy of science. Hands-on laboratory exercises are integrated into the course. 4 hours per week. This course is normally offered every semester and summer.

#### **2313 PHYSICAL SCIENCE I: THE EARTH**

An introduction to the study of the Earth, emphasizing processes that shape and change the surface. This course studies the lithosphere, hydrosphere, and atmosphere, including effects of pollution and remediation efforts. Hands-on laboratory exercises are integrated into the course.

4 hours per week. (Same as GEOG-2313.) This course is normally offered every semester and summer.

#### **2323 PHYSICAL SCIENCE II: ASTRONOMY**

A sequel to GNSC-2313, studying the fundamental concepts of astronomy. This course includes historical perspectives as well as current interpretation of celestial phenomena. The course compares and contrasts other planets to the Earth and examines stars and stellar life cycles, galaxies, and theories of cosmology. Hands-on laboratory exercises are integrated into the course. 4 hours per week. This course is normally offered every semester and summer.

#### **2711 SOPHOMORE SCIENCE SEMINAR**

Prerequisite: GNSC-1711 or permission of instructor.

A seminar course introducing students to classic scientific literature and forms of research presentation. Students will also attend departmental lectures and participate in career planning and assessment of readiness to begin upper level science course work. 2 hours per week. This course is normally offered in the spring semester.

#### **3113 FORENSIC SCIENCE AND THE LAW**

A course exploring the application of various laws and rules of evidence to the forensic sciences and how the admission of evidence derived from forensic sciences can impact the administration of justice in the United States. What forensic scientists testify to and how their sciences conform to the "Rules of Evidence" will be discussed. Lecture—3 hours. This course is normally offered in the spring semester of odd numbered years.

#### **3711 JUNIOR SCIENCE SEMINAR**

Prerequisite: GNSC-2711.

A seminar course with emphasis on reading and evaluating primary scientific literature. Students will make presentations and participate in sessions with students enrolled in GNSC-4712. 2 hours per week. This course is normally offered every semester.

#### **4712 SENIOR SCIENCE SEMINAR**

Prerequisite: GNSC-3711.

A seminar course requiring research and oral presentation of a paper from students' major area. Students will also participate in assessment, mentoring, and service learning. 2 hours per week. This course is normally offered every semester.

#### **4721 SCIENCE MODELING AND STRATEGIES**

Prerequisites: Junior or Senior level, science education major

The course is designed to fulfill NSTA requirements for secondary science education majors. During this course, each student will complete a science portfolio based on competency based artifacts as proof of concept mastery. This portfolio consists of five different modules and sixteen assignments, each addressing a specific NSTA standard. Student teaching may not be started until the student has successfully completed this course. This course is normally offered in the fall semester.

#### **4850 SCIENCE SERVICE LEARNING**

Provides an opportunity for learning in a service environment. Students select a service project and work with a faculty mentor to develop the academic background, assignments and reflection to create a unique learning opportunity. One hour of class time each week will be devoted to meeting with mentors and other students to discuss the project. Variable credit (one to three hours) will be given based on the number of service hours and academic responsibilities. This course offered as needed.

### **GEOGRAPHY (GEOG)**

#### **2113 ELEMENTS OF HUMAN GEOGRAPHY**

A study of the relationship between humankind and the environment and the effect of that relationship on political, cultural, economic, and religious institutions. This course is normally offered in the spring semester of odd numbered years.

#### **2213 WORLD REGIONAL GEOGRAPHY**

An interpretive study of the political map of the world and some of its recent changes. Attention is focused on the role of location, physical environment, population, ethnic groups, natural resources, and technological change in the evolution of nation-states and dependent territories. This course is normally offered in the spring semester and summer.

#### **2313 PHYSICAL GEOGRAPHY**

An introduction to the process of land form development and the interaction of the hydrosphere and lithosphere. (Same as GNSC-2313.) This course is normally offered every semester and summer.

#### **2413 HUMAN GEOGRAPHY OF LATIN AMERICA**

Prerequisite: Acceptance to the Latin American Studies Program.

This course will focus on the cultures-sociological, geographical, political and religious—that contribute to the emergence of the present situations. Social interactions among Latin American countries and implications for Latin American-USA relations are also explored and evaluated. The class will be assisted by lectures from area specialists in the countries visited, visual sources, primary and secondary sources, and hands-on learning via tour sites. This course is designed to take advantage of the travel opportunities afforded by your international study experience. This course is offered in the summer when there is a Latin America study abroad program.

#### **2513 HUMAN GEOGRAPHY OF THE PACIFIC RIM**

Prerequisite: Acceptance to the Pacific Rim Studies Program.

This course will focus on the cultures-sociological, geographical, political and religious—that contribute to the emergence of the present situations in the Pacific Rim countries. The students will study the historical development of a dominate culture apart from the west, the main architects of that development and the blending of this area to the world arena. The class will be assisted by lectures from area specialists in the countries visited, visual sources, primary and secondary sources, and hands-on learning via tour sites. This course is designed to take advantage of the travel opportunities afforded by your study abroad experience. This course is normally offered in the fall on the Pacific Rim study abroad program.

#### **4900 INDEPENDENT STUDY IN GEOGRAPHY**

Provides mature students an opportunity for individual research and guided readings. (1-3 hours) This course is offered as needed.

### **GERMAN (GERM)**

#### **1113 BASIC GERMAN I**

Basic principles and practice of speaking, understanding, reading and writing German and an introduction to German culture for those with no background in German. This course is designed for students participating in the European Studies program. This course is offered as needed.

### 1213 BASIC GERMAN II

Prerequisite: GERM-1113, one year of German in high school or the equivalent with permission of the instructor.

Continuation of Basic German I, enabling the student to read, write, understand and respond in basic German and to be aware of cultural differences. This course is offered as needed.

## GREEK (GREK)

### 1113 ELEMENTARY GREEK I

An introductory course in the elements of Koine Greek. Particular attention is given to vocabulary, declensions, and conjugations used in the New Testament. This course is normally offered in the fall semester.

### 1213 ELEMENTARY GREEK II

Prerequisite: GREK-1113.

A continuation of GREK-1113 with selected readings from the New Testament. This course is normally offered in the spring semester.

### 2113 INTERMEDIATE GREEK I

Prerequisite: GREK-1213.

Designed to give the student who has completed courses in elementary Greek essential linguistic knowledge and skill for exegetical work in the Greek New Testament. This course is normally offered in the fall semester.

### 2213 INTERMEDIATE GREEK II

Prerequisite: GREK-2113.

A continuation of GREK-2113 with more detailed and inductive study of New Testament Greek. This course is normally offered in the spring semester.

### 3113 ADVANCED GREEK READINGS I

Prerequisite: GREK-2213.

Readings from various New Testament documents with concentration on the grammatical relationships between words. This course is normally offered in the fall semester.

### 3213 ADVANCED GREEK READINGS II

Prerequisite: GREK-3113.

Readings from various New Testament documents, a formal exegesis, and special word studies. This course is normally offered in the spring semester.

### 4900 INDEPENDENT STUDY IN ADVANCED GREEK GRAMMAR

Assigned readings and reports or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college. 1-3 hours. This course is offered as needed.

## HEBREW (HBRW)

### 3113 ELEMENTARY HEBREW I

An introductory course in the principles of biblical Hebrew with special emphasis on verbal forms. This course is normally offered in the fall semester.

### 3213 ELEMENTARY HEBREW II

Prerequisite: HBRW-3113.

A continuation of HBRW-3113. This course will include readings in Hebrew narratives and an introduction to textual criticism and Hebrew exegesis. This course is normally offered in the spring semester.

## HISTORY (HIST)

### 1223 TURNING POINTS IN U.S. HISTORY

A survey of the major trends, conflicts and crises of American history from the age of discovery to the present. Special attention will be paid to such topics as the settlement of the United States, the American Revolution, the Age of the Common Man, the Civil War Era, the Age of Industrialization and Urbanization, American foreign policy and the Cold War, the Civil Rights Movement, the decade of the sixties and the cultural wars. This course is normally offered every semester.

### 2123 INTRODUCTION TO HISTORICAL RESEARCH

An introduction to research, analysis and writing, emphasizing the nature of history and historical research, research tools and procedures, critical reviewing of historical monographs, and researching and writing a short historical paper. This course is normally offered in the spring semester.

### 2213 HISTORY OF THE U.S. TO 1877

A survey of the social, economic and political developments in the United States from colonization through the reconstruction era. This course is normally offered every semester.

### 2223 HISTORY OF THE U.S. SINCE 1877

A survey of American history from the end of reconstruction to the present. This course is normally offered in the spring semester.

### 2313 OKLAHOMA HISTORY

A study of the exploration of Oklahoma, coming of civilized tribes, opening of Indian lands to settlement by non-Indians, statehood, constitution and government, and economic and political developments. This course is normally offered in the spring semester of even numbered years.

### 2513 ENGLISH HISTORY TO 1603

A survey of English history from the Roman Conquest to the death of Elizabeth I, with emphasis on the creation of the national state and its constitutional evolution. Economic and social developments and relations with other parts of the British Isles also receive attention. This course is offered as needed.

### 2523 ENGLISH HISTORY SINCE 1603

A survey of English history from the accession of James I to the present. In addition to the themes emphasized in the first half of this survey, the rise and the decline of the British Empire are studied. This course is offered as needed.

### 2613 THE MODERN MIDDLE EAST

A historical and cultural study of the modern Middle East, focusing on Islamic culture, nationalism, secularization and the challenge of Westernization. Key topics include the rise and fall of the Ottoman Empire, the establishment of Saudi Arabia, the Israeli-Palestinian conflict, the Iranian Revolution, the Persian Gulf Wars, and the rise of political terrorism. This course is normally offered in the fall semester of even numbered years.

### 2723 INTRODUCTION TO PUBLIC HISTORY

Introduction to theories regarding various fields of public history, the historical traditions of such fields, and the relationship between public history and the history profession. The course will introduce students to various public history fields including museum studies, archives, historic preservation, heritage tourism, media, oral history, and cultural resource management. Field trips to area museums, archival depositories, and research centers will be included. This course is normally offered in the fall semester of even numbered years.

### 2903 STUDIES IN EUROPEAN CIVILIZATION

A systematic study of Western civilization beginning with ancient Greece and ending with the emerging European community. Students visit major European capitals as part of the field experience on the European Studies Program. This course is normally offered in the fall semester and summer.

### 2923 PERSPECTIVES IN WESTERN CIVILIZATION

Prerequisite: Sophomore standing.

An examination of the political, economic, social, cultural and religious developments of Western civilization. This course is normally offered every semester.

### 3113 AMERICAN WESTERN FRONTIER

A historical study of the western United States from the time of Spanish settlement to the present, focusing on interactions between Europeans and native inhabitants, American western expansion, and the importance of the western American folk culture. Key topics include Spanish conquistadores and missions, the Louisiana Purchase, the Oregon Trail, the Mexican-American War, Indian Wars, and the West in popular culture. This course is normally offered in the fall semester of even numbered years.

### 3173 CHURCH HISTORY TO 1517

A comprehensive historical survey of the Christian religion from its beginning to the sixteenth-century Reformation. Special emphasis is given to the nature of the early church, later doctrinal controversies, papal development and outstanding personalities of this period. (Same as BIBL-3173.) This course is normally offered in the fall semester of even numbered years.

### 3183 CHURCH HISTORY 1517 TO PRESENT

Christian history from the sixteenth-century Reformation through the nineteenth-century Restoration Movement in America. (Same as BIBL-3183.) This course is normally offered in the spring semester of even numbered years.

### 3193 THE RESTORATION MOVEMENT

A study of the Scottish origins and American development of the Restoration Movement. Significant personalities and issues as well as the history and spread of the movement are studied. (Same as BIBL-4713.) This course is normally offered in the fall semester of odd numbered years.

### 3213 COLONIAL AMERICA-1492-1763

This course focuses on the creation and development of European colonies in the New World, especially in North America, from the European discovery of America to the end of the French and Indian War. It compares and contrasts the cultures of the major European colonial powers, those of Native Americans and Africans, and their various cross-cultural interactions. Key topics include European exploration and conquest, the everyday lives of colonists, their interactions with Native Americans, the development and spread of slavery, political and economic development, religion, and colonial wars. This course is normally offered in the spring semester of odd numbered years.

### 3413 AFRICAN-AMERICAN HISTORY

A study of the political, intellectual and socio-economic history of African-Americans from their African backgrounds to the present. Special emphasis is placed upon the contradictions between the treatment of African-Americans and other Americans, the

development of African-American culture, leadership, and the struggle for liberty and equality. This course is normally offered in the spring semester of odd numbered years.

#### **3563 NINETEENTH CENTURY EUROPE, 1789-1890**

An examination of the social, economic and political history of Europe from 1789 to the passing of Bismarck. Special emphasis is placed upon the French and Industrial Revolutions and their long-range effects. This course is normally offered every fifth semester.

#### **3583 TWENTIETH CENTURY EUROPE, 1890-PRESENT**

A study of the twentieth century and its dramatic developments, focusing especially on the challenges to liberalism embodied in the world wars, fascism, communism and the Cold War. This course is normally offered every fifth semester.

#### **3613 AMERICAN INTELLECTUAL HISTORY**

An interdisciplinary study of American thought from the Puritans to the present, with emphasis on American exceptionalism, Calvinism, the Enlightenment, Romanticism, individualism, social Darwinism, pragmatism, anti-communism, and post-modernism. This course is normally offered in the spring semester of even numbered years.

#### **3713 AMERICAN RELIGIOUS HISTORY**

A historical study of religion in America from the point of European contact to the present, with an emphasis on religious pluralism, church-state relations, theology, and cultural accommodation. Key topics include Puritanism, the Great Awakenings, evangelicalism, Catholicism, Mormonism, the Restoration Movement, the Social Gospel, Fundamentalism, and world religions in America. This course is normally offered in the spring semester of odd numbered years.

#### **3913 RENAISSANCE AND REFORMATION, 1300-1648**

An examination of the cultural developments which appeared first in Italy and then spread to Northern Europe. The course includes a brief survey of the Protestant revolt and its political ramifications. This course is normally offered every fifth semester.

#### **4013 REVOLUTIONARY AND EARLY NATIONAL AMERICA, 1763-1815**

A study of the creation and development of the American republic from the end of the French and Indian War through the War of 1812 with an emphasis on politics and political thought, diplomacy, and religious and cultural developments. Particular attention will be paid to the emergence of American culture and nationalism, dissent and revolution, the Confederation and Constitution, the development of political parties, westward expansion, the War of 1812, and the personalities, politics and religious beliefs of the founding generation. This course is normally offered in the fall semester of odd numbered years.

#### **4033 AMERICAN WOMEN'S HISTORY**

An historical study of women in America from the colonial period to the present, focusing on women's experiences as wage earners, political activists, social reformers, and homemakers. Key topics include the Salem Witch Trials, women in the Revolution, frontier women, the suffrage movement, Victorian sexuality, progressive reforms, the modern feminist movement, the concept of gender, and women in sports. This course is normally offered in the spring semester of even numbered years.

#### **4113 JACKSONIAN AMERICA-1815-1850**

An examination of the political, economic, social and cultural developments of the United States from the end of the War of 1812 through the 1840s with emphasis on the rise of Jacksonian democracy, religious revivals and innovations, revolutions in transportation, communications and market economics, the emergence of American nationalism, the bases for sectionalism, and America's westward expansion. Key topics include Jacksonian politics, the Second Party System, Indian removal, manifest destiny, the Second Great Awakening, and the Mexican-American War. This course is normally offered in the spring semester of even numbered years.

#### **4313 THE GILDED AGE AND PROGRESSIVE ERA, 1877-1914**

The aftermath of reconstruction, the occupation of the trans-Mississippi West, the revolutions in communications, agriculture, and industry, and their relation to political and social developments, the tariff, movements for reform, foreign relations, and the progressive movement. This course is normally offered in the fall semester of odd numbered years.

#### **4343 AMERICA IN THE ERA OF THE WORLD WARS, 1914-1945**

Focuses on the home front during this turbulent period. Topics covered include the impact of the wars on society, the economic collapse of the nation, the transition from an agrarian society to a dominant urban culture, the revolution in thought and morals, and the growing rumblings of discontent from women and minorities. This course is normally offered in the fall semester of odd numbered years.

#### **4353 U.S. HISTORY SINCE 1945**

A study of America's political, diplomatic, social, economic, and cultural history since the end of WWII, focusing on the Cold War, McCarthyism, the expansion of civil rights, the Vietnam War, student protests, the Persian Gulf Wars, and popular culture. This course is normally offered in the spring semester of odd numbered years.

#### **4423 HISTORY AND THEORY OF HISTORIC PRESERVATION**

Survey of the various historic theories of historic preservation, and the social, cultural, and technological forces that shaped them. The course will foster a consciousness of the

various historical and contemporary attitudes towards the identification and preservation of historically significant structures. This course is normally offered in the fall semester of odd numbered years.

#### **4523 HISTORY OF ROME**

A study of Rome from founding to fall, with special attention to the nature of Roman imperialism, culture, politics and the roles of Jews and Christians in the Empire. This course is normally offered every fifth semester.

#### **4613 MEDIEVAL EUROPE, 400-1300**

A detailed study of the political, economic and social history of Europe from the decline of the Roman Empire up to late Middle Ages, with special attention to key institutions which have shaped the modern world. This course is normally offered every fifth semester.

#### **4723 CIVIL WAR AND RECONSTRUCTION**

A study of the social, economic and political factors leading to the Civil War, 1860-1865, and the results of the conflict. This course is normally offered in the fall semester of even numbered years.

#### **4733 SENIOR HISTORY SEMINAR**

Prerequisites: Senior standing and grade of "C" or better in HIST-2123.

A capstone seminar giving history majors the opportunity to further develop their craft as historians and explore in depth a historical question that has interested them. Students interact with the faculty at an advanced level, produce a historical project and practice research skills in preparation for graduate school or for entry into their professions. This course is normally offered in the fall semester.

#### **4810 SPECIAL STUDIES**

Content varies. Course may be repeated. (1-3 hours) This course offered as needed.

#### **4900 INDEPENDENT STUDY IN HISTORY**

Provides mature students an opportunity for individual research and guided readings. (1-3 hours) This course offered as needed.

## **HONORS PROGRAM COURSES (HONR)**

The prerequisite for all honors courses is admission to the Honors Program.

#### **1010, 1020 SYMPOSIUM**

Content changes each semester, but course focuses on current issues or concerns related to other courses in the program. This course is normally offered every semester. 1010 is normally offered in the fall semester and 1020 is normally offered in the spring semester.

#### **1114 WESTERN THOUGHT AND EXPRESSION THROUGH THE RENAISSANCE**

An interdisciplinary analysis of the confluent events and expressions – historical, political, religious, philosophical, artistic, scientific, and mathematical – that have shaped Western thought, values and culture through the Renaissance. In particular, the course focuses on those aspects of early Western civilization that have directly influenced our current thinking and culture. This course is normally offered in the fall semester.

#### **1124 WESTERN THOUGHT AND EXPRESSION SINCE THE RENAISSANCE**

An interdisciplinary analysis of the confluent events and expressions – historical, political, religious, philosophical, artistic, scientific, and mathematical – that have shaped Western thought, values and culture since the Renaissance. The course focuses on the rise of individualism, new scientific discoveries, and the globalization of economies and war. Topics include the effect of each of these elements on our current American cultural and political realities. This course is normally offered in the spring semester.

#### **1214 THE BIBLE AND CLASSICAL LITERATURE**

A careful study of key biblical texts and the worldview they teach juxtaposed with a study of classical texts from the ancient Greek and Roman civilizations. Students study the similarities of theme and artistic form between the two types of text and analyze the different responses they offer to our human condition and needs. This course is normally offered in the fall semester.

#### **1224 THE BIBLE, SCIENCE AND HUMAN VALUES**

A study of biblical teachings concerning the nature of human beings and order in God's universe compared and contrasted with specific discoveries and philosophies of science after the Renaissance. The course focuses on the specific ways in which the Bible and science interacted to produce many of the human values common to contemporary Western civilization. This course is normally offered spring semester. This course is normally offered in the spring semester.

#### **2010, 2020 SYMPOSIUM**

Content changes each semester, but course focuses on current issues or concerns related to other courses in the program. This course is normally offered every semester.



### 2113 THE QUEST FOR MEANING: CHRIST AND THE GOOD LIFE

A course based on the supposition that Jesus Christ provides the best solution to persistent puzzles of life: "Why am I here?" "What is worth doing?" "How can I live a good life?" "Where am I going?" To see Jesus' answers in context, students investigate His life and teachings and note conflicts and conjunctions between His revelation and other views of the good life which have been significant for our culture. This course is normally offered in the fall semester.

### 2123 THE QUEST FOR IDENTITY: RACE, CLASS AND GENDER IN AMERICAN THOUGHT

A study of American authors and texts in the nineteenth and twentieth centuries that have contributed in a significant way to our current understanding of American identity. Particular attention will be given to the conflict in our society between individualism and the community and how the conflict has influenced our current understanding of race, class and gender. This course is normally offered in the spring semester.

### 3111, 3121, 4111 HONORS SYMPOSIUM

An honors symposium led by experts from various disciplines on topics specific to their respective areas of study and/or research. The purpose of the symposium is to encourage honors students to think critically and broadly, to communicate effectively and to make application of the knowledge specific to their fields of study. This course is normally offered every semester.

### 4121 SENIOR HONORS SEMINAR

Honors research project, thesis, or extensive service project designed and completed by the honors student with the approval of the Director of the Honors Program and under the guidance of an OC faculty member. This course is normally offered every semester.

## INFORMATION SYSTEMS (INFO)

### 3113 PRINCIPLES OF ELECTRONIC BUSINESS

A comprehensive study of the organizational needs for information and the conceptual, technological, and practical foundations of information systems in order to build an understanding of the value of information systems for business operations, management decision making, and strategic advantage. An introduction to the concepts of electronic business as facilitated by the Internet, World Wide Web, and related technologies. The topics covered include an understanding of the catalysts for e-business (business-to-business and business-to-customer), convergence of technologies and capabilities, technological challenges, Web design, behavior and educational challenges, organizational and business barriers, and strategies for e-business. This course is normally offered every semester.

### 4900 INDEPENDENT STUDY IN INFORMATION SYSTEMS

Prerequisites: Junior or Senior standing and approval of the dean of the college. (1-3 hours).

Assigned readings, reports, research projects, and system development projects based on the needs of the student. A maximum of 3 hours may be counted toward the major. This course is offered as needed.

## INTERNATIONAL STUDIES (INTL)

### 4123 INTERNATIONAL FINANCE

Prerequisite: FINC-3313

Examines all the factors affecting the determination and fluctuation of exchange rates and the forecasting of those exchange rates. Studies the principles around currency hedging to protect profits when conducting business on an international level. Also, addresses the accounting and financial principles surrounding international mergers and acquisitions and capital budgeting decisions. This course is offered as needed.

### 3123 INTERNATIONAL EXPERIENCE

During this course, students participate in an experience that immerses them for at least one week in the international business environment of a country or countries paying particular attention to the methods, practices and challenges of conducting business in an international environment. Course requirements include attending at pre-trip seminars and completing all course assignments after the conclusion of the travel experience. This course is offered as needed.

### 4413 INTERNATIONAL MANAGEMENT

International management is an analysis of cultural impacts on International management and International business. Along with information technology, international management is the major challenge facing organizations entering the new millennium. All countries and companies are now part of the super competitive global marketplace. Emphasis is placed on the emerging role of the global manager as a cosmopolitan, communicator, negotiator, creator of synergy, and change leader. Seven major world regions – North America, Latin America, Asia, Europe, Middle East, India, and Africa – are discussed for matters of cultural specifics. This course will provide a balanced approach to International Management by discussing international environment, culture, strategy and functions and organizational behavior, and human resource management. (Same as MGMT-4413.) This course is normally offered in the fall semester.

### 4513 INTERNATIONAL ECONOMICS

This course provides an overview of the international trade theory and global economic

development. It addresses the fundamentals of international markets, investment, and the institutions of international trade, including the IMF, World Bank, and the World Trade Organization. This course is offered as needed.

### 4723 GLOBAL MARKETING

This course discusses the marketing of goods, services, and ideas in the context of a multinational environment. (Same as MKTG-4723.) This course is normally offered in the spring semester.

### 4813 INTERNATIONAL CONSULTING AND DEVELOPMENT

A study and application of the international consulting process as applied to solving business and development problems in developing nations. Students are introduced to the various ways consulting can aid systems in mobilizing internal and external resources to deal with social, governmental, and business needs and change efforts. Each student will work individually or in a team to address a specific, real-world problem or change effort currently underway in a variety of international settings. Classroom work will focus on learning organizational development skills, systems diagnosis, and intervention techniques. This course is offered as needed.

## JAPANESE COURSES (JAPN)

### 1113 BASIC JAPANESE I

A study of beginning Japanese, enabling the student to understand, respond, read and write basic Japanese. This course is designed for students participating in the Pacific Rim program. This course is offered as needed.

## MANAGEMENT (MGMT)

### 3113 PRINCIPLES OF MANAGEMENT

Prerequisite: sophomore standing or instructor approval.

An introduction to the management processes of planning, organizing, leading and controlling. The theory and history of management, decision making, policy planning, organization planning, supervising, coordinating and controlling and human resources management are studied. This course is normally offered every semester.

### 3213 OPERATIONS MANAGEMENT

Prerequisites: MGMT-3113, MATH-1413, MATH-2913.

A study of the production operations function in business including the creation of both goods and services. Attention is given to the design, location and operation of the productive system and its interrelationship with other systems in the organization. The course places special emphasis on the use of quantitative technique in decision making. This course is normally offered every semester.

### 3323 ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT

Prerequisite: Junior or Senior standing or permission of instructor.

An introduction and examination of entrepreneurial, small business, self-employment opportunities, and new venture processes. The course covers managerial activities needed for start-up and operation of the small business enterprise. This course is normally offered in the fall semester.

### 3533 ISSUES IN MANAGEMENT

Prerequisite: MGMT-3113.

This course covers a selection of current issues and specialized topics in management. The course is updated each year to ensure relevant topics are considered and explored. This course is normally offered in the spring semester.

### 4313 ORGANIZATIONAL BEHAVIOR

Prerequisite: PSYC-1113.

An integration of social sciences as they affect people at work. The organization is analyzed from the standpoint of three interacting systems: the individual, the group, and the organization itself. Emphasis is placed on managing organizational behavior. (Same as PSYC-4313 or SOCI-4313.) This course is normally offered in the spring semester.

### 4413 INTERNATIONAL MANAGEMENT

International management is an analysis of cultural impacts on International management and International business. Along with information technology, international management is the major challenge facing organizations entering the new millennium. All countries and companies are now part of the super competitive global marketplace. Emphasis is placed on the emerging role of the global manager as a cosmopolitan, communicator, negotiator, creator of synergy, and change leader. Seven major world regions – North America, Latin America, Asia, Europe, Middle East, India, and Africa – are discussed for matters of cultural specifics. This course will provide a balanced approach to International Management by discussing international environment, culture, strategy and functions and organizational behavior and human resource management. (Same as INTL-4413.) This course is normally offered in the fall semester.

### 4513 HUMAN RESOURCE MANAGEMENT

Prerequisites: MATH-2913 and MGMT-3113.

A study of the major human resource management processes including staffing, training and development, appraisal, compensation, leadership, organizational justice, labor relations, quality of work life and employee health and safety. The course focuses on contemporary human resource management issues. This course is normally offered in the fall semester.



#### 4613 STRATEGIC MANAGEMENT

Prerequisites: To be taken in last semester of senior year.

A capstone seminar that draws together the concepts and tools studied in previous business courses. The course uses the case method of instruction and a computer-based simulation, and it affords practice in analyzing authentic managerial problems in free enterprise from the varying viewpoints of diverse disciplines and practice in forming workable solutions which consider both technical and human factors. The course gives particular attention to the standards of conduct appropriate for Christian leaders. This course is normally offered every semester and summer.

#### 4900 INDEPENDENT STUDY IN MANAGEMENT

Prerequisites: Junior or Senior standing and approval of the chair of the college. (1-3 hours). A maximum of 3 hours may be counted toward major. Assigned readings, reports and research projects based on the needs of the individual student. This course is offered as needed.

#### 4990 INTERNSHIP IN MANAGEMENT

Prerequisites: admission to School of Business Administration upper division, completion of MGMT-3113 and approval of advisor and chair.

Supervised and approved management internship with firm or organization; written and oral reports are required along with employer evaluation. (Variable credit, 1-3 semester hours; 50 hours work required for each hour of credit with a maximum of 3 credit hours.) This course is offered as needed.

## MARKETING (MKTG)

#### 3313 PRINCIPLES OF MARKETING

Prerequisite: Junior standing or instructor approval.

An introduction to the fundamentals of marketing. Product distribution, promotion, and price are studied with emphasis on the marketing aspects of managerial decision making in a dynamic society. This course is normally offered every semester.

#### 3413 CONSUMER BEHAVIOR

Prerequisites: MKTG-3313, PSYC-1113 or SOCI-1113, and Junior standing.

The study of consumer motivations and values in the light of social and psychological theory. This background provides standards of the social and human evaluation of marketing activities, with emphasis on consumer motivation and consumer psychological makeup. The course develops the relationship between social and psychological factors in marketing activities. This course is normally offered in the spring semester.

#### 3513 ELECTRONIC COMMERCE AND ONLINE MARKETING

Prerequisite: MKTG-3313 or instructor approval.

An in-depth study of the structure of online markets, online buyer behavior, business to business online, virtual product offerings, web-based promotion, logistics and fulfillment, and web-based pricing. Students are required to create a web-based business, design their own web page, and market a product online. This course is normally offered in summer.

#### 3713 SALES MANAGEMENT AND THE SALES PROCESS

Prerequisite: Junior standing.

An in-depth look at the process of selling all types of products and services and at the process of managing a sales territory. A combination of lecture, class discussion, and student presentations will be utilized. This course is normally offered in the spring semester.

#### 4313 PROMOTIONAL STRATEGIES

Prerequisite: MKTG-3313, junior standing, or instructor approval.

An introduction to the various communication channels available for the spread of promotional information about goods, services and ideas to prospects. The course gives special attention to behavioral considerations and places particular emphasis upon the duties of marketing managers in planning, implementing, and controlling a program of promotional communication. This course is normally offered in the spring semester.

#### 4513 MARKETING RESEARCH

Prerequisites: MATH-2913, MKTG-3313, and Junior standing.

The study of marketing research theory and technique with special emphasis on the use of the scientific method. The course seeks to develop the student's analytical ability, to familiarize the student with the basic marketing research tools, and to develop the student's proficiency in the art of writing research reports. This course is normally offered in the fall semester.

#### 4613 MARKETING MANAGEMENT

Prerequisite: Senior standing.

A study of managerial aspects of the marketing function, emphasizing the qualitative criteria utilized in evaluating marketing alternatives. The course includes topics related to the decision-making process such as marketing research, product development, advertising and promotion, sales management, cost and demand analysis, competition, pricing, packaging, and forecasting. This course is normally offered in the spring semester.

#### 4723 GLOBAL MARKETING

This course discusses the marketing of goods, services, and ideas in the context of a multinational environment. (Same as INTL-4723.) This course is normally offered in the spring semester.

#### 4900 INDEPENDENT STUDY IN MARKETING

Prerequisites: Junior or Senior standing and approval of the chair of the school.

Assigned readings, reports, and research projects based on the needs of the student. (1-3 hours). A maximum of 3 hours may be counted toward major. This course is offered as needed.

#### 4990 INTERNSHIP IN MARKETING

Prerequisites: Admission to upper division, completion of MKTG-3313 and approval of advisor and chair.

Supervised marketing internship with approved firm or organization; written and oral reports are required. (Variable credit, 1-3 semester hours; 50 hours work required for each hour of credit with a maximum of 3 credit hours.) This course is offered as needed.

## MATHEMATICS (MATH)

#### 1143 ELEMENTS OF MATHEMATICS I

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher.

Designed to give the liberal arts student a comprehensive overview of the applications of mathematics in today's society with an emphasis on problem-solving skills. Special attention will be given to the role of mathematics. Topics will include set theory, logic, probability, systems of numeration, and number theory. This course is normally offered every semester.

#### 1153 ELEMENTS OF MATHEMATICS II

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher.

Topics include algebra, systems of linear equations, geometry, problem solving and consumer mathematics. This course is normally offered every semester.

#### 1213 COLLEGE ALGEBRA

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher. A study of basic algebraic operations. Includes the solution and graphing of linear equations, quadratic equations, polynomials, inequalities, logarithms, and exponential functions. Other topics include sequences, series, binomial theorem, systems of equations and matrices. This course is normally offered every semester.

#### 1523 TRIGONOMETRY

Prerequisite: SDEV-0103 or a math ACT score of 23 or higher. A study of trigonometric equations, their graphs, and inverses. Other topics include trigonometric identities, trigonometric equations, radian degree measure, and the polar coordinate system. This course is normally offered every semester.

#### 1623 INTRODUCTION TO DISCRETE MATHEMATICS

Prerequisite: MATH-1213, MATH-1413, MATH-1522, or MATH-2114.

Topics include sets and set relations, functions, proof techniques, logic, logic functions, logic circuits, counting techniques, and graph theory. This course is normally offered every semester.

#### 2113 APPLIED CALCULUS

Prerequisite: MATH-1213.

Analytic geometry, limits, derivatives and integrals involving algebraic, exponential and logarithmic functions. Applications are primarily related to the areas of business and social sciences. This course is normally offered in the fall semester.

#### 2114 CALCULUS I WITH ANALYTICAL GEOMETRY

Prerequisites: MATH-1213 and MATH-1522 or the equivalent.

Differentiations and integrations of algebraic and transcendental functions, applications and analytical geometry. This course is normally offered every semester.

#### 2214 CALCULUS II WITH ANALYTICAL GEOMETRY

Prerequisite: MATH-2114.

Differentiations and integrations of inverse trigonometric functions, logarithmic functions, and exponential functions. Topics include formal integration techniques, polar coordinates, conic sections, sequences and series. This course is normally offered every semester.

#### 2314 CALCULUS III

Prerequisite: MATH-2214.

The calculus of functions of several variables, partial differentiation, multiple integrals, vectors and vector functions. This course is normally offered every semester.

#### 2913 STATISTICAL METHODS

Prerequisite: MATH-1213 or the equivalent.

Basic experimental statistics, basic probability distributions, methods of estimations, tests of significance, sampling techniques, inferences concerning population parameters, regression and correlation. This course is normally offered every semester.

#### 3013 DIFFERENTIAL EQUATIONS

Prerequisite: MATH-2214.

First order and simple higher-order differential equations, linear equations with constant coefficients, simultaneous differential equations, series solutions and applications. This course is normally offered every semester.

### 3113 NUMBER THEORY

Prerequisite: MATH-2214.

Divisibility, primes, congruencies, functions of number theory, Diophantine equations, Farey fractions and other related topics. This course is normally offered in the spring semester of even numbered years.

### 3123 MATHEMATICAL MODELING AND STRATEGIES FOR SECONDARY TEACHERS

Prerequisites: MATH-2214 and permission of instructor.

Designed for secondary mathematics teachers to provide experiences that develop significant connections among mathematical ideas and applications of these ideas to problem solving in mathematics. The course includes opportunities for the prospective mathematics teacher to reflect critically on teaching practices and curriculum and to use a variety of tools of technology and manipulatives to create environments to help students learn. This course also includes a survey of the historical development of mathematical systems, including those contributions of underrepresented groups and diverse cultures. This course is normally offered in the fall semester of even numbered years.

### 3313 MODERN ALGEBRA I

Prerequisite: MATH-2214.

An introduction to modern algebra. Topics include concepts from set theory, number systems, groups, rings, and fields. This course is normally offered in the fall semester of even numbered years.

### 3413 MODERN ALGEBRA II

Prerequisite: MATH-3313.

A continuation of Modern Algebra I, including vector spaces, polynomial rings, and ideals. This course is normally offered in the spring semester of odd numbered years.

### 3513 LINEAR ALGEBRA

Prerequisite: MATH-2214.

Matrix theory, quadratic forms, determinants, linear transformations, systems of equations, eigenvalues and eigenvectors. This course is normally offered in the fall semester.

### 3623 INTRO TO ANALYSIS

Prerequisite: MATH-2214

A rigorous approach to the usual topics encountered in Calculus I, II, & III such as limits, continuity, differentiation, integration, and infinite series. The course is intended to prepare the student for more advanced analysis courses such as Advanced Calculus, Introduction to Real Analysis, or Introduction to Complex Analysis usually encountered at the first year graduate level. The construction of mathematical proofs will be emphasized. This course is normally offered in the fall semester of odd numbered years.

### 3813 MODERN GEOMETRY

Prerequisite: MATH-2214.

Advanced Euclidean geometry, axiomatic geometries, non-Euclidean geometry, and graph theory. This course is normally offered in the spring semester of odd numbered years.

### 4113 PROBABILITY AND STATISTICS I

Prerequisite: MATH-2314.

Simple probability models, random variables, distribution functions and discrete and continuous distributions. This course is normally offered in the fall semester of odd numbered years.

### 4213 PROBABILITY AND STATISTICS II

Prerequisite: MATH-4113.

Sampling, presentation of data, testing statistical hypotheses, estimating and testing variability and comparisons of populations. This course is normally offered in the spring semester of even numbered years.

### 4313 COMPLEX VARIABLES

Prerequisites: Any two math courses numbered 3000 or above.

Complex numbers, analytic functions, integration series, contour integration, analytic continuation and multi-valued problems, conformal mappings, boundary value problems, and integral transforms. This course is normally offered in the fall semester of even numbered years.

### 4513 POINT SET TOPOLOGY

Prerequisites: Any two math courses numbered 3000 or above.

Theory of point sets and abstract spaces with applications to analysis. This course is offered as needed.

### 4811 SEMINAR IN MATHEMATICS

Prerequisite: Senior standing.

A seminar uniting the varied elements of the mathematics major. A written and oral presentation covering a current research topic in mathematics is required. This course is normally offered in the spring semester.

### 4900 INDEPENDENT STUDY IN MATHEMATICS

Prerequisite: Juniors or seniors with approval of the instructor and of the departmental chair.

Assigned research, readings and reports based on the needs of the individual student. 1-3 hours. This course is offered as needed.

## MECHANICAL ENGINEERING (MECH)

### 3443 FLUID MECHANICS

Prerequisite: ENGR-2433.

Corequisite: MATH-3013.

A study of fluid statics and dynamics. Application of mass, energy and momentum conservation principles to design and analysis of fluid devices and systems, including introductions to boundary layer theory, dimensional analysis and compressible flow. Lecture – 3 hours. This course is normally offered in the spring semester.

### 3453 THERMODYNAMICS II

Prerequisites: ENGR-2433.

Corequisite: CHEM-1314.

A continuation of thermodynamics topics. Unsteady processes, advanced cycles, gas mixtures, psychrometrics, chemical and phase equilibrium, combustion analysis, thermodynamic property relations and compressible flow. Lecture – 3 hours. This course is normally offered in the fall semester.

### 3613 ENGINEERING MATERIALS AND MANUFACTURING PROCESSES

Prerequisites: ENGR-2533.

Corequisite: CHEM-1314.

An introduction to engineering materials and manufacturing processes. Emphasis on material selection and design for manufacture. Includes engineering design. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

### 3813 MECHATRONICS

Prerequisite: ENGR-2623.

Common applications of diodes and transistors plus concepts and applications of digital systems, including micro-processor based systems. Lecture – 2 hours; Laboratory – 3 hours. This course is normally offered in the fall semester.

### 4123 MACHINE DYNAMICS

Prerequisite: MATH-3013 and ENGR-2523.

A study of kinematics and dynamics of machines and machine parts. Analysis of the kinematics of planar linkages, dynamics of cam mechanisms, gear trains, governors, flywheels, and gyroscopes. Lecture – 3 hours. This course is normally offered in the fall semester.

### 4133 DYNAMIC SYSTEMS AND CONTROLS

Prerequisites: ENGR-2523 and ENGR-2623.

Mathematical modeling for dynamic response of electrical, mechanical, fluid and thermal systems. Introduction to control systems. System response characteristics are investigated by use of state variable theory, time domain and frequency response analysis, root locus and Nyquist stability criteria. Design of mechanical engineering control systems. Lecture – 3 hours. This course is normally offered in the spring semester.

### 4213 MACHINE DESIGN

Prerequisite: ENGR-2533.

Analysis of machine components, stress analysis, failure prediction, fatigue failure, safety, and reliability. Lecture – 3 hours. This course is normally offered in the spring semester.

### 4233 HEATING, VENTILATING AND AIR CONDITIONING

Prerequisites: MECH-3443.

An introduction to analysis and design methods used in HVAC equipment and systems. Emphasis on comfort, safety, economy, and energy conservation in load calculations, room air distribution, piping and duct design, and equipment selection. Lecture – 3 hours. This course is normally offered in the fall semester.

### 4243 HEAT TRANSFER

Prerequisite: MECH-3443.

Analysis of heat transfer devices and systems. Analytical and numerical solutions of conservation equations including conduction, convection and radiation effects. Design and analysis of heat exchangers. Lecture – 3 hours. This course is normally offered in the fall semester.

### 4311 THERMAL-FLUIDS LAB

Prerequisites: ENGR-3311 and MECH-4243.

Application of experimental methods for pressure, temperature and flow measurement to thermodynamic systems, fluid power devices, heat exchangers and aerodynamic surfaces. Data collection, analysis and interpretation of results with emphasis on report writing. Laboratory – 3 hours. This course is normally offered in the spring semester.

### 4513 ADVANCED MECHANICS OF MATERIALS

Prerequisite: MECH-3613.

Stress, strain and torsion analysis; deflections of statically indeterminate structural systems and failure analysis; design criteria. Three-dimensional and unsymmetrical stress analysis, finite element methods and buckling. Lecture – 3 hours. This course is normally offered in the spring semester.

### 4523 FINITE ELEMENT ANALYSIS

Prerequisite: MATH-3013 and MECH-3613.

An introduction to the mathematical foundation of the finite element method and the responsible application of the technique to mechanical design and analysis. The mathematical element formulations for simple truss, beam, and conduction problems, as well as the use of commercial finite element software will be addressed. This course is normally offered in the fall semester.

#### **4533 VIBRATION THEORY AND APPLICATION**

Prerequisites: MATH-3013 and ENGR-2523.

Free and forced vibrations of multiple degree of freedom mechanical and structural systems with various types of damping. Theory of vibration isolation, design of vibration absorbers, harmonic and nonharmonic disturbances and shock spectrums. Theory of vibration measuring instruments. Introduction to dynamic finite element methods. Lecture – 3 hours. This course is normally offered in the spring semester.

#### **4613 TOOLS AND MANAGEMENT OF QUALITY**

Prerequisite: MECH-3023.

An introduction to the mathematical foundation of the finite element method and the responsible application of the technique to mechanical design and analysis. The mathematical element formulations for simple truss, beam, and conduction problems, as well as the use of commercial finite element software will be addressed. This course is normally offered in the spring semester.

#### **4732 SYSTEMS DESIGN I**

Prerequisites: Advisor permission.

A recap and extension of problem-solving skills introduced in earlier courses using a systems design approach; to prepare the student for the capstone design project work of MECH-4742 and MECH-4752; topics to include engineering design terminology, methodology and procedures; technical memos and reports; safety, ethics, information gathering and team dynamics. Significant emphasis on oral presentations is included. Laboratory – 3 hours. (Same as ELEC-4732 and CENG-4732.) This course is normally offered in the spring semester.

#### **4743 SYSTEMS DESIGN II**

Prerequisites: Advisor permission and MECH-4732.

An implementation of the design methodology covered in Systems Design I. Applications of research and design relating to real world or industry problems; interaction with other fields of engineering and science. MECH-4742 and MECH-4752 constitute a single two-semester project experience. Laboratory – 6 hours. (Same as ELEC-4743 and CENG-4743.) This course is normally offered every semester.

#### **4753 SYSTEMS DESIGN III**

Prerequisites: Advisor permission and MECH-4743.

A continuation and completion of the capstone design project begun in MECH-4742. Students not successfully completing the entire project must normally retake MECH-4742/4752 with a new project assignment. Laboratory – 6 hours. (Same as ELEC-4753 and CENG-4753.) This course is normally offered every semester.

#### **4820 INTERNSHIP FOR ENGINEERING PRACTICE**

The engineering programs encourage all students to participate in at least one summer of engineering internship work. The engineering internship experience is very important to providing real-world application of the classroom experience and also has become an expectation by employers of engineers internationally. This course allows international students in F-1 status majoring in engineering at OC to participate in Curricular Practical Training. Enrollment in this course will be under the supervision of an individual engineering professor. A journal or summary paper of the internship experience will be required at the conclusion of the employment period. 1 to 3 credit hours. This course is offered as needed.

## **MEDICAL TECHNOLOGY (MEDT)**

Prerequisite for all medical technology courses: Admission to clinical training. Courses are taught off campus at clinical sites. Check the catalog of the cooperative university for semesters when courses are offered.

#### **4117 CLINICAL MICROBIOLOGY**

The theory and laboratory study of pathogenic bacteria, viruses, rickettsiae, fungi and parasites. Isolation, identification, antimicrobials susceptibility testing and medical significance.

#### **4125 CLINICAL CHEMISTRY I**

The theory and laboratory methodology of analytical biochemistry, clinical microscopy, routine, and special procedures and medical significance.

#### **4236 CLINICAL HEMATOLOGY**

Systematized study of disease, cell maturation and function, principles of hemostasis, methodology used in routine and special hematology studies and correlation of hematological findings with physiological conditions.

#### **4246 CLINICAL IMMUNOLOGY**

The theory of immunologic responses and procedures used in serological determinations; the study of immunohematology, fundamentals of antigen-antibody reactions, blood groups and types, compatibility testing, blood components, and the laboratory methods

used as they relate to the medical significance of immunohematology; immunology and infectious diseases.

#### **4325 CLINICAL CHEMISTRY II**

The theory and laboratory methodology of analytical biochemistry, instrumentation, laboratory mathematics, routine and special procedures, and medical significance.

#### **4351 TOPICS IN MEDICAL TECHNOLOGY**

Principles and practices of the medical laboratory including basic management, quality assurances, special education methodology, computer applications, laboratory safety, and special projects in selected areas.

## **MISSIONS (MISS)**

#### **3013 MISSION PREPARATION**

A course taught by one who has served as a missionary. The following subjects are treated: the New Testament concept of missions and missions today; a description of the work of a missionary; doctrinal preparation for the mission field; emotional preparation; spiritual preparation; preparing the supporting home church; communicating with the home church; effective missionary methods for various fields; maintaining physical, mental, emotional, social, and spiritual health in the mission field. Non-textual. This course is normally offered in the spring semester of odd numbered years.

#### **3033 BIBLICAL MISSIONS METHODS**

A study of the biblical basis for world evangelism as depicted in the Book of Acts and in the New Testament Epistles. A comparison is made between the world of biblical times and the contemporary world, and a study is made of various mission fields and methods currently used, such as in the domestic church planting movement. The practicality of New Testament principles and methods is stressed. Non-textual. This course is normally offered in the fall semester of odd numbered years.

#### **3113 WOMEN IN MISSIONS**

A study of the unique opportunities, challenges and difficulties which single and married women face on the mission field. Non-textual. This course is normally offered in the fall semester.

#### **3143 INTRODUCTION TO ASIAN CIVILIZATIONS**

Prerequisite: Junior standing

Introduces the major cultural themes of East, Southeast, and South Asia. Students will learn about the geographical, social, political, economic, cultural and religious features of the three major regions of Asia. Fulfills the core curriculum non-Western civilization requirement. (Same as SOCI-3143.) Non-textual. This course is offered as needed.

#### **3153 URBAN MINISTRY**

An examination of diverse aspects of ministry within urban contexts both in the United States and abroad. Topical areas covered include cities in the Bible, principles of urban evangelism and missions, urban church growth, and ministry in contexts of ethnic, racial, and socioeconomic diversity. Non-textual. This course is normally offered in the spring semester of even numbered years.

#### **3213 CHURCH GROWTH**

A study of the dynamics involved in planting, sustaining, and reproducing growing churches. Emphasis is given to various factors that affect quantitative, qualitative, and organic church growth. (Same as BIBL-3153.) Non-textual. This course is normally offered in the fall semester of even numbered years.

#### **3313 CROSS-CULTURAL MINISTRY**

A practical study of the challenges involved in ministering to people of different cultural backgrounds in a variety of contexts: not only domestic and foreign mission work, but also short-term projects such as mission trips, study abroad programs, missionary internship and apprentice programs, and work with international students or immigrants here in the United States. Non-textual. This course is normally offered in the spring semester of even numbered years.

#### **3513 WORLD RELIGIONS**

Prerequisite: Junior standing

A comparative study of the beliefs and practices, as well as the historical and sociological impact, of several of the world's principal religious traditions. These include indigenous traditions, Judaism, Islam, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Fulfills the core curriculum non-Western civilization requirement. (Same as SOCI-3513.) Non-textual. This course is normally offered every semester.

#### **3613 CULTURAL ANTHROPOLOGY**

An introduction to the concept and practice of cultural analysis with an emphasis on enhancing students' cultural intelligence in regard to cultural differences, ethnocentrism and cultural change. Significant attention is devoted to the anthropology of religion. Fulfills the core curriculum non-Western civilization requirement. (Same as SOCI-3613.) Non-textual. This course is normally offered in the spring semester of odd numbered years.

#### **3673 NEW RELIGIOUS MOVEMENTS**

A study of explicitly religious teachings and practices in a wide variety of new religious movements, as well as quasi-religious teachings and practices in such areas as alternative medicine, the environment, self-help and psychotherapy, and the New Age



movement. Fulfills the core curriculum non-Western civilization requirement. (Same as BIBL-3673.) Non-textual. This course is normally offered as needed.

#### **4113 THE LOCAL CHURCH AND MISSIONS**

A study of the responsibility of the local church in world evangelism with suggestions concerning how to lead the local church to accept and carry out its missionary work. Non-textual. This course is normally offered in the spring semester of even numbered years.

#### **4313 MISSIONS IN THE CONTEMPORARY WORLD**

A study of the impact of various issues upon mission work as it is actually being carried out today around the world, taught by a visiting missionary. Content varies according to the particular field experience of the instructor. Non-textual. This course is normally offered as needed.

#### **4633 INTERCULTURAL COMMUNICATION I**

Prerequisite: ENGL-2113.

A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in communication. ENGL-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. (Same as COMM-4633, ENGL-4633 and SOCI-4633.) Non-textual. This course is normally offered in the spring semester of odd numbered years.

#### **4643 INTERCULTURAL COMMUNICATION II**

Prerequisite: ENGL-1213 or 2113.

A continuation of MISS-4633, typically taught while a student is living in a foreign culture. (Same as ENGL-4643 and SOCI-4643.) Non-textual. This course is offered as needed.

#### **4714 MISSIONS PRACTICUM**

On-site supervised ministry experience in a missions situation, either foreign or domestic, by invitation and with a faculty supervisor. The course includes readings, a journal, and a thorough evaluation by the field supervisor. Non-textual. This course is offered as needed.

#### **4813 MISSIONS EXPERIENCE**

Supervised experience on a mission field, either foreign or domestic, of 6-8 weeks duration. Does not count for core curriculum Bible. Non-textual. This course is offered as needed.

#### **4820 SPECIAL STUDIES IN MISSIONS**

Content varies. Course may be repeated. (2-3 hours) This course is offered as needed.

#### **4900 INDEPENDENT STUDY IN MISSIONS**

Assigned readings, reports or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college. (2-3 hours) This course is offered as needed.

## **MUSIC (MUSC)**

#### **1000 RECITAL ATTENDANCE**

Regular attendance at on and off campus musical performances. Required each semester for music majors. This course is normally offered every semester.

Note: See "Special Requirements for all Music Majors" on page 92.

#### **1023 FUNDAMENTALS OF MUSIC THEORY**

Includes notation and drills in keys, scales, intervals, triads, and score reading, and emphasizes basic skills in sight-reading rhythm and pitch in bass and treble clefs. The course is not applicable for credit in major, but is required if the student is unable to pass minimum requirements for admission to MUSC-1112 (which follows in the music theory sequence). This course is normally offered in the fall semester.

#### **1112 MUSIC THEORY I**

Prerequisite: MUSC-1023, if student is unable to meet minimum entrance requirements. Chord connection, four-part writing, cadences, dictation and sight singing of intervals, scales and melodies, rhythms, broken chords and keyboard application. Class – 3 hours. This course is normally offered in the spring semester.

#### **MUSIC THEORY SEQUENCE II**

The two courses below cover secondary diatonic chords, non-harmonic tones, dominant sevenths, simple modulation, dictation and sight singing of more difficult melodies, intervals, scales, and rhythms, cadences, etc. Concurrent enrollment in both is required except with permission of the department chair. Offered in the fall semester.

#### **1211 EAR TRAINING II**

Class – 2 hours. This course is normally offered in the fall semester.

#### **1212 MUSIC THEORY II**

Class – 2 hours. This course is normally offered in the fall semester.

#### **1301 VOCAL ENSEMBLE**

A student may register for credit in an ensemble in which he or she performs if the group is sufficiently active to justify the credit. Permission of instructor required. This course is offered as needed.

#### **1311 UNIVERSITY CHORALE**

The OC Chorale offers opportunities for experience in choral singing. A wide range of both sacred and secular choral literature is studied with numerous performances scheduled. Participation of members in all scheduled rehearsals and performances is required. Membership by audition. Rehearsal – 4 hours. This course is normally offered every semester.

#### **1321 MUSIC PRODUCTION WORKSHOP**

Prerequisite: Permission of instructor required.

Requires at least 60 hours in rehearsal and performance on stage in a faculty-directed campus musical production. This course is normally offered every semester.

#### **1331 SYMPHONIC BAND**

The OC Symphonic Band performs for campus functions, in concert and on tour. Participation of all members in scheduled rehearsals and performances is required. Membership by audition. Rehearsal – 4 hours. This course is normally offered every semester.

#### **1341 JAZZ ENSEMBLE**

Prerequisite: participation in Symphonic Band or instructor permission.

Large ensemble jazz music is the emphasis of this group. Performs for campus and civic functions in concert and on tour. Membership by audition. Rehearsal – 3 hours. This course is normally offered every semester.

#### **1351 INSTRUMENTAL ENSEMBLE**

Prerequisite: Permission of instructor required.

A student may register for credit in an ensemble in which he or she performs if the group is sufficiently active to justify the credit. This might include such groups as brass choir or OC's Sweat Band, a group performing at home basketball games in the "Eagles' Nest." This course is normally offered every semester.

#### **1361 ORCHESTRA**

Credit for orchestra is available to OC students through participation in the Oklahoma Community Orchestra, the university's official orchestra-in-residence. Permission required. Rehearsal – 2.5 hours. This course is normally offered every semester.

#### **1381 OPERA STUDIO**

Prerequisite: permission of instructor required.

Requires at least 60 hours in rehearsal and performance on stage in a faculty-directed campus opera production. Offered spring semester. This course is offered as needed.

#### **1391 CHAMBER SINGERS**

Prerequisite: participation in University Chorale or instructor permission.

The study and performance of significant choral works from all periods of musical style. Membership by audition. Rehearsal – 3 hours. This course is normally offered every semester.

#### **1451 UNIVERSITY CHAMBER ORCHESTRA**

The OC chamber orchestra studies chamber music of varied musical styles and performs concerts for university and civic programs. Sight-reading skills also are emphasized. Membership by permission. Rehearsal – 2.5 hours per week. This course is normally offered every semester.

#### **PRIVATE INSTRUCTION**

Students may register for private instruction in piano, voice or any of the instruments listed. Piano students will audition for placement in Class Piano or private instruction. Students registering for one hour credit (such as 1501) receive one half-hour lesson per week. Those registering for two hours credit (such as 1502) receive one one-hour lesson per week. There is a fee of \$225 per credit hour for all private instruction classes. Some private lessons additionally require payment of accompanist fees at \$15 per hour. Students should check with the private instructor to determine specific accompanist expectations.

#### **1501, 1502 PIANO**

This course is normally offered every semester.

#### **1511, 1512 VOICE**

This course is normally offered every semester.

#### **1531, 1532 BRASS INSTRUMENT**

This course is normally offered every semester.

#### **1541, 1542 WOODWIND INSTRUMENT**

This course is normally offered every semester.

#### **1551, 1552 PERCUSSION INSTRUMENT**

This course is normally offered every semester.

#### **1561, 1562 STRING INSTRUMENT**

This course is normally offered every semester.

#### **1571, 1572 GUITAR**

This course is normally offered every semester.



### 1581 CLASS PIANO I

An introduction to piano playing for the student with little or no prior keyboard experience. Instruction will stress understanding notation of pitch and rhythm; playing with appropriate fingering, articulation and dynamics; gaining technical facility and coordination between hands; playing pieces in major and minor five-finger patterns; and playing melodies with triad accompaniments. Some selections will be memorized. Class meets 2 hours per week. This course is normally offered every semester.

### 1671 CLASS GUITAR

An introduction to guitar playing for the beginning student. Instruction will focus on playing fundamental chords, scales, and strumming techniques, and on the introduction of tablature, standard notation, and harmonics. Class meets 1 hour per week. (Does not fulfill the requirement for music education majors.) This course is normally offered every semester.

### 1681 CLASS PIANO II

Prerequisite: Grade of B or better in Class Piano I, or audition for piano faculty. Continuation of skills presented in Class Piano I or previous keyboard experience. Students will sight read and play ensemble and solo repertoire of various styles and technical studies in major and minor keys. Basic skills emphasized include 2-octave major and minor scales; major, all types of triads in progressions, inversions, and arpeggios; harmonizing melodies, using diatonic and second chords appropriately; and using the damper pedal. Classes normally limited to eight students. Class meets 2 hours per week. This course is normally offered every semester.

### MUSIC THEORY SEQUENCE III

The two courses below cover modulation to closely related keys, altered chords and higher discords, original melodies and harmonizations, and ear training. Concurrent enrollment in both is required except with permission of the department chair. This course is normally offered in the spring semester.

### 2111 EAR TRAINING III

Class – 2 hours. This course is normally offered in the spring semester.

### 2112 MUSIC THEORY III

Class – 2 hours. This course is normally offered in the spring semester.

### MUSIC THEORY SEQUENCE IV

The two courses below cover a continuation of altered chords, augmented sixths, secondary diminished sevenths, remote and enharmonic modulations, aural study of remote modulations, unusual and mixed meters, and altered chords. Concurrent enrollment in both is required except with permission of the department chair. This course is normally offered in the fall semester.

### 2211 EAR TRAINING IV

Class – 2 hours. This course is normally offered in the fall semester.

### 2212 MUSIC THEORY IV

Class – 2 hours. This course is normally offered in the fall semester.

### 2512 DICTION I: ENGLISH AND ITALIAN

Prerequisite: For vocal majors and minors; others by permission. A study of the International Phonetic Alphabet as it pertains to the singing of English and Italian song and opera literature. Offered spring semester odd years. This course is normally offered in the spring semester of odd numbered years.

### 2522 DICTION II: FRENCH AND GERMAN

Prerequisite: For vocal majors and minors; others by permission. A study of the International Phonetic Alphabet as it pertains to the singing of German and French song and opera literature. Offered fall semester odd years. This course is normally offered in the fall semester of odd numbered years.

### 2581 CLASS PIANO III

Prerequisite: Grade of B or better in Class Piano II, or audition for piano faculty. Continues functional piano skills from Class Piano II or previous keyboard experience. The primary focus is learning to play intermediate repertoire from various historical periods of music with appropriate style and fluency. Assignments provide opportunity to develop skills in sight reading, playing I-IV-I-V-I progressions in all keys and positions, playing 2-octave scales in all keys, harmonizing and transposing melodies using diatonic triads, seventh chords, and secondary chords. The final exam for Class Piano III includes the opportunity to pass the repertoire section of the Piano Proficiency Exam, which is a graduation requirement for OC music majors. Classes normally limited to eight students. Class meets 2 hours per week. This course is normally offered in the fall semester.

### 2681 CLASS PIANO IV

Prerequisite: Grade of B or better in Class Piano III, or audition for piano faculty. This is the capstone course in the pursuit of functional piano skills for music majors. Assignments continue to develop technical skill in playing scales, chord progressions, modulations, and ensemble repertoire. Emphasis is placed on harmonizing and improvising accompaniments in various styles, score reading, and accompanying instrumentalists and vocalists fluently. The final exam includes the sight reading, accompanying, and functional skills sections of the Piano Proficiency Exam, which is a graduation requirement for all music majors. Students must continue to enroll in piano

until the exam is passed with a score of 85% or better. Classes normally limited to eight students. Class meets 2 hours per week. This course is normally offered in the spring semester.

### 3000 JUNIOR RECITAL

Prerequisite: To enroll, students must have achieved a satisfactory level of performance skill as specified in published departmental materials. Solo recital performance on major instrument in the student's junior year. This course is offered as needed.

### 3121 CLASS WOODWINDS

A practical study of woodwind instruments of the band with emphasis on embouchure development, articulation techniques and general pedagogical principles. This course is normally offered in the spring semester of even numbered years.

### 3131 CLASS BRASS

A practical study of the brass instruments of the band with emphasis on embouchure development, articulation techniques and general pedagogical principles. This course is normally offered in the fall semester of odd numbered years.

### 3141 CLASS PERCUSSION

A practical study of the percussion instruments of the band including an introduction to rudiments and basic playing technique plus an overview of all the instruments of the section. This course is normally offered fall semester even years. This course normally offered in the spring semester of odd numbered years.

### 3151 CLASS STRINGS

A practical study of the string instruments of the orchestra with emphasis on bowing techniques, articulation, performance and general pedagogical principles. Offered fall semester odd years. This course is normally offered in the fall semester of even numbered years.

### 3213 PERSPECTIVES IN WORLD MUSIC

The goal of this course is to enable the student to become an active listener and observer of music from many different cultures. Particular emphasis will be placed on understanding how non-Western music traditions compare with and contrast to Western music traditions. It is the intention of this course to expand the student's awareness of the power of music, both as a human expression and a reflection of culture. The student will identify shaping trends and influences, the hybridization of multiple music cultures, and will examine the concept of "globalization" as it might apply to music. In order to accomplish course goals, students will learn how to listen to music in an active and conscious way. This will require the identification and analysis of the elements of music at work in each musical example we listen to (these include melody, rhythm, harmony, form, and timbre.) This course is normally offered every semester and in the summer.

Note: MUSC-2211 and MUSC-2212 must be completed before attempting the following courses unless approval is received from the department chair.

### 3323 MUSIC HISTORY I

Prerequisite: For music majors; others by permission. An introduction to ancient non-Western music and to music from the beginnings of Western civilization through the Renaissance period. The course begins with a brief overview of Western and non-Western music through all time periods, along with a primer for strengthening listening skills. The course features style analysis—visual and aural—of representative compositions and analysis of the relationship of music to socio-cultural background. This course is normally offered every third semester.

### 3333 MUSIC HISTORY II

Prerequisite: For music majors; others by permission. Continuation of MUSC 3323. An overview of Western (and selected non-Western) music from the early Baroque through the Classical era (approximately 1600-1820). The course features style analysis—visual and aural—of representative compositions and analysis of the relationship of music to socio-cultural background. This course is normally offered every third semester.

### 3343 MUSIC HISTORY III

Prerequisite: For music majors; others by permission. Continuation of MUSC 3333. An overview of Western (and selected non-Western) music from the early Romantic period (approximately 1820) up to the present day. The course features style analysis—visual and aural—of representative compositions and analysis of the relationship of music to socio-cultural background. This course is normally offered every third semester.

### 3412 ORCHESTRATION

A practical study of the technical scope of orchestral and band instruments, providing introductory performance experience in instrumental families. Students will complete transcription exercises for each instrument family and a major transcription project for large instrumental ensemble. Fluency with computer programs is expected. Offered spring semester even years. This course is normally offered in the spring semester of even numbered years.

### 3513 MUSIC EDUCATION TECHNOLOGY

Prerequisite: For music majors; others by permission. This course addresses the appropriate use and adaptation of technology in the classroom

for music educators. Students develop competencies in the operation and effective utilization of equipment, electronic hardware, and materials commonly used by music educators. It is the goal of this course that each student, upon successful completion, will have a working knowledge of MIDI, notation technology, computer software, internet web page construction, and the ability to understand and use equipment while relying on owner's manuals for specifics regarding particular controllers or programs. This course is normally offered in the fall semester.

### 3452 VOCAL PEDAGOGY

Prerequisite: For vocal majors and minors with junior or senior standing; others by permission.

A course for those wanting to teach voice at the private level and those who will teach group vocal technique as choral directors. Emphasis is given to the science of vocal production: phonation, respiration, and resonance. This course is normally offered in the spring semester of even numbered years.

### 3462 PIANO PEDAGOGY I

Topics will include the philosophy and benefits of piano instruction, discussion of teaching styles and learning styles, methods and materials for teaching early level students, the business aspects of the independent studio, developing piano technique, and preparing students for contests and recitals. The student will plan and teach segments of group lessons and individual lessons with pre-college students. Lecture – 2 hours; Laboratory – 1 hour. Offered fall semester even years. This course is normally offered in the spring semester of even numbered years.

### 3561 PIANO PEDAGOGY II

A survey of additional methods and literature for the elementary and intermediate levels of piano instruction. Observations of student contests and performances are required. This course is offered as needed.

### 4001 SENIOR RECITAL

Solo recital performance in major performance area. To enroll, students must have achieved a satisfactory level of performance skill as specified in published departmental materials. This course is normally offered every semester.

### 4011 SENIOR PROJECT

Senior music majors may submit to the music faculty a proposal for a capstone project that will focus on performance, research, composition, and/or teaching. Additional guidelines are published in the Music Department Handbook. This course is normally offered every semester.

### 4212 CHORAL CONDUCTING I

Basic conducting skills, beat patterns, cueing and vocal score preparation, interpretation, nonverbal communication and rehearsal techniques. Includes choral conducting experience. This course is normally offered in the spring semester of even numbered years.

### 4222 CHORAL CONDUCTING II

Emphasis on rehearsal techniques, group dynamics and discipline, etc., involving conducting labs with music students as performers. An introduction to Renaissance, Baroque, Classical, Romantic, and Twentieth Century performance practice. This course is normally offered in the fall semester of even numbered years.

### 4312 INSTRUMENTAL CONDUCTING I

Basic conducting skills, beat patterns, cueing and instrumental score preparation, interpretation, nonverbal communication, and rehearsal techniques. Includes instrumental conducting experience with classmates as performers. This course is normally offered in the spring semester of even numbered years.

### 4322 INSTRUMENTAL CONDUCTING II

Emphasis on score study, rehearsal techniques, group dynamics, etc., involving conducting labs with music students as performers. This course is normally offered in the spring semester of odd numbered years.

### 4411 PIANO LITERATURE

A survey course to cover standard keyboard repertoire from 1700 to the present. This music elective may be taken as an independent study or in a class if enrollment is sufficient. Considerable emphasis will be on listening to piano music from the different periods of music history and discussing stylistic characteristics. This course is offered as needed.

### 4900 INDEPENDENT STUDY IN MUSIC

Arranging, composition, sixteenth-century counterpoint or other study. Music majors only, or by approval of the department chair. Three hours total applicable toward graduation. (1-3 hours) This course is offered as needed.

## NURSING (NURS)

### 1011 INTRODUCTION TO NURSING

An introductory nursing course designed to acquaint the student with nursing from a historical perspective from the beginnings of the profession to current professional developments in the industry. Students will be introduced to nursing trends and changing national and global health care delivery methods. Lecture – 1 hour. This course is normally offered in the fall semester.

### 2003 HEALTH ASSESSMENT

Prerequisites: BIOL-2013, BIOL-2523 and CHEM-1104

Course focuses on the nursing process and the performance of clinical diagnosis. Students will learn to assess the client's physical, psychological, social, and spiritual dimensions as a foundation to nursing care. The skills of interviewing, documentation, inspection, percussion, palpation, and auscultation are refined to make clinical judgments and promote positive health client outcomes. Lecture – 2 hours; Clinical – 1 hour. This course is normally offered in the fall semester.

### 2013 FUNDAMENTALS OF NURSING

Prerequisite: NURS-2003.

An introductory course emphasizing nursing skills and nursing process. Nursing theory and concepts related to the human response to illness will be explored. Emphasis is placed on the development and integration of therapeutic communication skills, nurse-client relationships, developmental needs, cultural diversity and legal/ethical issues. Lecture – 2 hours; Clinical – 1 hour. This course is normally offered in the spring semester.

### 2033 PHARMACOLOGY

Prerequisites: BIOL-2013, BIOL-2523 and CHEM-1104

Course is designed as an introduction to pharmacological principles, drug classifications, and expected therapeutic outcomes associated with drug therapy. Nursing process and drug therapy are discussed in relation to clients' developmental levels and health habits across their lifespan. Lecture – 3 hours. This course is normally offered in the spring semester.

### 3013 PATHOPHYSIOLOGY

Prerequisites: Acceptance into nursing program

A course studying the alterations in physiological well-being across the lifespan as pathological responses to disease, stress, genetics, and environmental changes occurring within the body. Critical thinking, research findings, and scientific knowledge are applied to analyze individual outcomes throughout the course. Lecture – 3 hours. This course is normally offered in the fall semester.

### 3014 MENTAL HEALTH NURSING

Prerequisite: Acceptance into nursing program.

A course introducing the student to basic mental health nursing content as applied to individuals, families, and community groups. Through the application of the nursing process, students learn to provide complex therapeutic nursing interventions for a variety of mental health disorders. Continued development of communication skills, professionalism, teaching/learning principles, ethical/legal, and economic issues are incorporated throughout the course. Lecture – 2 hours; Clinical – 2 hours. This course is normally offered in the fall semester.

### 3015 ADULT NURSING I

Prerequisite: Acceptance into nursing program.

A course focusing on medical-surgical nursing care of culturally diverse adult patients across the lifespan who are experiencing chronic health problems and end-of-life issues. The concept of caring is emphasized with a focus on individuality and cultural diversity. Implementation of the nursing process in a health care setting will focus on using basic teaching-learning principles for practice. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the fall semester.

### 3024 MATERNAL-INFANT HEALTH NURSING

Prerequisites: NURS-3013, NURS-3014 and NURS-3015.

A course studying concepts and implementation of professional nursing care for women in their childbearing years, newborns, and their families, with emphasis on pregnancy, childbirth, and the postpartum period. This course encompasses knowledge of growth and development, cultural diversity, and additional assessment techniques for pregnant women and newborns. Lecture – 2 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

### 3025 ADULT NURSING II

Prerequisites: NURS-3013, NURS-3014 and NURS-3015 and successful completion of fall nursing courses.

This course which builds upon the medical-surgical concepts learned in Adult Nursing I, focusing on adult patients experiencing common acute and chronic health problems across the lifespan. The effects on families and community groups are also examined. Through application of the nursing process, students learn to provide complex therapeutic nursing interventions while using critical thinking skills. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

### 3034 HEALTH CARE MISSIONS AND CHRISTIAN SERVICE

Prerequisite: Successful completion of fall senior nursing.

A course designed to focus on Christian concepts and principles as applied to global health service. Participation in health care delivery system of selected underserved communities or countries is an integral component. Lecture – 2 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

### 4005 COMMUNITY HEALTH NURSING

Prerequisite: Senior standing in nursing.

A course focusing on organization and delivery of nursing care to individuals, families and groups in a variety of community health care settings. Emphasis is placed on prevention of disease, health promotion, and control of communicable disease within the community. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the fall semester.

#### **4011 CAPSTONE IN NURSING**

Prerequisite: NURS 4005, NURS 4015, NURS 4022

A synthesis course within the nursing program preparing the student for licensure. Students develop an outcome report of their learning experiences which combine theory content and computer technology. National achievement exams will be an integral component of this course in preparation and review for NCLEX. Lecture – 1 hour. This course is normally offered in the spring semester.

#### **4015 CHILD AND FAMILY HEALTH NURSING**

Prerequisite: Senior standing in nursing, MATH-2913, PSYCH-3523.

A course focusing on concepts of professional nursing care and implementation of the nursing process with pediatrics and their families. Emphasis of developmental variances, cultural diversity, family dynamics, and pathophysiology of childhood diseases are incorporated throughout the course. Lecture – 3 hours, clinical – 2 hours. This course is normally offered in the fall semester.

#### **4022 ISSUES AND TRENDS IN NURSING**

Prerequisite: Senior standing in nursing.

A theory course which addresses moral, ethical and legal issues within the nursing profession. The student's transition into professional nursing practice will be addressed, including career planning and the student's professional role for future practice. Lecture – 2 hours. This course is normally offered in the fall semester.

#### **4024 LEADERSHIP AND MANAGEMENT IN NURSING**

Prerequisite: NURS 4005, NURS 4015, NURS 4022

An introduction to the concepts of leadership and management principles related to nursing practice for preparation for role transition from student to graduate. This course includes a concentrated senior precepted clinical experience in a selected practice area with 24-30 clock hours each week. Lecture – 2 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

#### **4025 ADULT NURSING III**

Prerequisite: NURS 4005, NURS 4015, NURS 4022

A course focusing on nursing care of adult patients across the lifespan in the critical care setting who are experiencing complex, multi-system health problems and life-threatening illness or injuries. Emphasis is placed on interdisciplinary collaboration and on psychological, cultural, social, economic, and spiritual concerns of patients and their families. Advanced technology, assessment skills, and collaborative practices are explored. Lecture – 3 hours; Clinical – 2 hours. This course is normally offered in the spring semester.

#### **4033 NURSING RESEARCH**

Prerequisite: NURS 4005, NURS 4015, NURS 4022

An introduction to the research process and its application to nursing practice. Emphasis on the role of the professional nurse in critiquing and using of nursing research. Critical thinking skills and the research process are applied to the development of a group research project. Lecture – 3 hours. This course is normally offered in the spring semester.

### **PHILOSOPHY (PHIL)**

#### **4113 SENIOR PHILOSOPHY SEMINAR**

Prerequisite: Must be a senior to take this course.

A seminar designed to help students integrate the different courses of the core curriculum into a unified worldview which prepares them for continuing their studies and their education throughout their lifetime. The course will encourage a Christian worldview and will explore the issues of faith, knowledge, morality, and ethics in a personal philosophy of life. This course is normally offered every semester and in the summer.

### **PHYSICAL EDUCATION (PHED)**

#### **ACTIVITY COURSES**

Usually meet 3 hours weekly

#### **1301-1391 INTERCOLLEGIATE SPORTS**

Instruction, practice and participation in the intercollegiate sports sponsored by the university.

#### **1611 BEGINNING TENNIS**

Instruction and practice in the fundamentals of tennis.

#### **1621 ADVANCED TENNIS**

Instruction and practice in advanced tennis skills.

#### **1811 BASKETBALL FUNDAMENTALS**

Instruction and practice in the fundamentals of basketball.

#### **1821 GOLF**

Instruction and practice in the fundamentals of golf.

#### **1911 BADMINTON**

Instruction and practice in the fundamentals of badminton.

#### **2321 RHYTHM AEROBICS II**

Continuation of Aerobics I with advanced material.

#### **2511 PHYSICAL FITNESS AND WELLNESS**

Planning and participation in effective lifetime fitness programs, including activity participation.

#### **2702 SPORTS LAB I**

Instruction and practice in the activities of golf, soccer/speedball, basketball and weight training. Students who are not physical education majors or minors need permission of the departmental chair to enroll. This course is normally offered in the fall semester.

#### **2712 SPORTS LAB II**

Instruction and practice in the activities of badminton, volleyball, tennis and softball. Students who are not physical education majors or minors need permission of the departmental chair to enroll. This course is normally offered in the spring semester.

#### **4211 ACTIVITY PRACTICUM I**

Open to physical education majors who are juniors or seniors. The departmental chair must approve enrollment in this class and will assign students to assist in an activity class or related area. This course is normally offered in the fall semester.

#### **4311 ACTIVITY PRACTICUM II**

Open to physical education majors who are juniors or seniors. As in 4211, the departmental chair must approve enrollment in this course, as assignments will be made for each student to assist or supervise activities. This course is normally offered in the spring semester.

#### **4411 TEACHING THE DISABLED CHILD**

Open to all students in the education field. This class allows students to work with physically and mentally disabled students. All work is done within a lab setting involving physical education and recreation skills. This course is normally offered in the fall semester.

#### **4900 INDEPENDENT STUDY IN PHYSICAL EDUCATION**

Prerequisites: Junior or Senior standing and permission of departmental chair.

Varies from actual laboratory work to specific contract assignments in various sports activities. A physical education major may take this course when the departmental chair feels it may be fitted to the student's needs and interests. This course is offered as needed.

### **THEORY COURSES**

#### **1113 INTRODUCTION TO SPORT, WELLNESS, AND RECREATION**

Introduces prospective physical education majors to all phases of the field. This course is normally offered fall semester.

#### **2213 METHODS OF TEACHING HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS**

A comprehensive study of the needs of elementary school children. Specific areas such as identifying and helping children with learning disabilities involving perceptual motor difficulties are studied. Actual laboratory work is involved where new activities and methods of teaching these activities are demonstrated and each student is a participant. The course also includes a study of concepts of teaching children with physical and mental disorders. This course is normally offered in the fall semester.

#### **2312 FIRST AID**

A study in the immediate care of persons involved in various types of emergencies. This course is normally offered in the fall semester.

#### **2412 CARE AND PREVENTION OF ATHLETIC INJURIES**

A course designed for students planning to coach varsity sports. Topics include common injuries and types of treatment for which each coach must be prepared. Laboratory work is required. This course is normally offered in the fall semester.

#### **2512 WELLNESS CONCEPTS**

Videotaped programs designed to provide basic conceptual physical fitness. These programs will help students learn how to do self-tests of fitness and wellness and plan effective lifetime fitness and wellness programs. This course is normally offered in the fall semester of odd numbered years.

#### **2612 SPORTS OFFICIATING**

Instruction and practical experience in officiating various sports, including basketball, baseball, volleyball, and football. This course is normally offered in the spring semester.

#### **3113 KINESIOLOGY**

Involves the study of human movement. Many forms of movement are analyzed and correlated with scientific principles of coaching various activities. This course is normally offered in the spring semester.

#### **3233 THEORY OF COACHING BASKETBALL**

Discussion of both defense and offense. Practical applications such as hiring officials, pre-game situations and personnel problems are studied. This course is normally offered in the spring semester.



**3242 THEORY OF COACHING VOLLEYBALL**

The study of all the principles involved in coaching this sport. Techniques in proper officiating as well as rules are discussed. This course is normally offered in the fall semester of even numbered years.

**3252 THEORY OF COACHING BASEBALL AND SOFTBALL**

Scientific principles of coaching baseball and softball as well as practical applications. Pre-season and in-season drills are studied. This course is normally offered in the spring semester of even numbered years.

**3262 THEORY OF COACHING TRACK AND FIELD**

The study of coaching principles in track and field events. Practical study involving the organization and administration of track meets is included. This course is normally offered in the spring semester.

**3272 THEORY OF COACHING TENNIS & GOLF**

The study of coaching principles in tennis and golf. A practical study in blending individuals into a team and the techniques of each sport. This course is normally offered in the fall semester of odd numbered years.

**3282 THEORY OF COACHING SOCCER**

The study of the principles of coaching the sport of Soccer. Offensive and defensive fundamentals will be studied. This course is normally offered in the spring semester of odd numbered years.

**3293 COACHING ETHICS AND SPORTS PSYCHOLOGY**

The study of current trends in ethics in sport and coaching and sport psychology. Best practices in each of these topics will be studied. This course is normally offered in the spring semester odd numbered years.

**3313 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION**

A study of various measuring or evaluating tools, reasons for evaluating, individual evaluations, educational statistics, etc. This course is designed to give the student better insight in reading research data involving statistical analysis. The course is essential for those students in physical education planning to do graduate study. This course is normally offered in the spring semester.

**4113 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION**

A study of the organization and administration of physical education and athletic programs in the public schools. This is the capstone course for physical education majors as they review and discuss problems and changes in their professional field. This course is normally offered in the spring semester.

**4123 RECREATION LEADERSHIP AND YOUTH SPORTS**

A study of leadership qualities needed in the organization and administration of various types of recreational programs. This course is normally offered in the fall semester of even numbered years.

**4213 ORGANIZATION AND ADMINISTRATION OF INTRAMURALS**

A study of the development of intramural sports in this country and the current theories and practices used by intramural programs throughout the nation. Field experience in organizing and administering an intramural program is included. This course normally offered in the spring semester of even numbered years.

**4313 PHYSICAL EDUCATION FOR THE EXCEPTIONAL CHILD**

A study of various types of programs in physical education for the mentally retarded, physically disabled, learning disabled and emotionally disturbed. Lab work is required. This course is normally offered fall semester of even numbered years. This course is normally offered in the spring semester.

**4323 PHYSIOLOGY OF SPORT AND EXERCISE**

A study of various scientific methods of coaching and teaching physical education classes. This course is normally offered in the fall semester.

**4413 METHODS OF TEACHING HEALTH AND PHYSICAL EDUCATION IN SECONDARY SCHOOLS**

Methods and materials of planning and conducting physical education activities at the middle and high school levels. This course satisfies the professional education requirement, but B.S.E. students should enroll in it as EDUC-4413. This course is normally offered in the spring semester.

**4513 RECREATIONAL ACTIVITIES FOR THE HANDICAPPED**

A study consisting chiefly of practical experiences in working with the handicapped in movement and recreational concepts on the OC campus. This course is normally offered in the fall semester of odd numbered years.

**4613 CAPSTONE SKILLS**

This course gives the senior Sports, Wellness and Recreation Management major to interact with faculty and professionals in the field to work at an advanced level in activities in the field or in a research topic. This course is normally offered every semester.

**PHYSICS (PHYS)****1514 COLLEGE PHYSICS I**

Prerequisite: MATH-1213.

Corequisite: PHYS-1811.

A study of classical, Newtonian mechanics, including kinematics, forces, energy and momentum conservation, rotation and equilibrium, as well as fluids, vibrations, wave motion and thermodynamics. Lecture – 4 hours. This course is normally offered in the fall semester.

**1614 COLLEGE PHYSICS II**

Prerequisite: PHYS-1514.

Corequisite: PHYS-1911.

Continuation of PHYS-1514, studying electricity and magnetism, light and optics, special relativity, and atomic, and nuclear physics. Lecture – 4 hours. This course is normally offered in the spring semester.

**1811 PHYSICS LAB I**

Corequisite: PHYS-1514 or PHYS-2513.

Laboratory experimentation in selected aspects of mechanics, wave motion, fluids, and heat. Emphasis is placed on the presentation and analysis of data. Laboratory – 3 hours. This course is normally offered every semester.

**1911 PHYSICS LAB II**

Prerequisite: PHYS-1811.

Corequisite: PHYS1614 or PHYS-2613.

Laboratory studies of selected experiments in electricity, magnetism, optics and nuclear physics. Emphasis is placed on use of computers in data analysis. Laboratory – 3 hours. This course is normally offered in the spring semester.

**2513 PHYSICS I**

Prerequisite: MATH-2114.

A calculus-level treatment of classical mechanics; i.e., motion, force, work, energy, gravity, rotation, torque and equilibrium, and thermodynamics. Lecture – 3 hours. This course is normally offered every semester.

**2613 PHYSICS II**

Prerequisites: PHYS-2513 and MATH-2214.

A continuation of PHYS 2513, covering the topics of heat and thermodynamics, electricity, magnetism, and alternating current. Lecture – 3 hours. This course is normally offered every semester.

**2713 PHYSICS III**

Prerequisite: PHYS 2613.

A continuation of PHYS 2613, including oscillations, waves, Maxwell's equations, light and optics, and topics in modern and atomic physics. Lecture – 3 hours. This course is normally offered in the spring semester of even numbered years.

**4900 INDEPENDENT STUDY IN PHYSICS**

Assigned research, readings and reports based on the needs of the individual student. May be taken only with the permission of the instructor and the departmental chair. This course is offered as needed.

**POLITICAL SCIENCE (POLS)****1213 AMERICAN POLITICAL ECONOMY**

An examination of the interconnection between the fundamentals of the American government and the basic principles of economy. Special attention will be given to the philosophy of Adam Smith and his impact on the development of American capitalism, governmental attempts to impact the economy and the debate between liberal and conservative philosophies concerning the role of government manipulation of the economy. This course is normally offered in the every semester.

**2113 INTRODUCTION TO AMERICAN POLITICS**

A survey of the rules (the Constitution), institutions (the Presidency, Congress, the courts, and the bureaucracy), participants (voters, parties, interest groups, and the media) and products (social, economic, and foreign policy) of democratic politics in the United States. This course is normally offered in the fall semester.

**2213 INTRODUCTION TO GLOBAL POLITICS**

A survey of why countries cooperate in maintaining national security and economic prosperity in a global economy, and how conflicts between countries threaten that security and prosperity. Students participate in several decision-making simulations that demonstrate the challenge of maintaining peace and security. This course is normally offered in the spring semester of even-numbered years.

**2313 RESEARCH SKILLS IN POLITICAL SCIENCE**

Prerequisite: POLS-2113 or POLS-2213.

A survey of several methods of conducting original research projects, which may include survey research, experiments, content analysis, statistical analysis, and case studies.



Students learn to identify research questions, to formulate strategies for answering them, to conduct the research, and to write up the results. This course is normally offered in the spring semester of even-numbered years.

#### **2413 COMPARATIVE POLITICS**

A survey of the major political systems, levels of government and inter-governmental relations, mass political behavior, and theoretical power relationships inside various regimes. It will involve an analysis of comparative political concepts with an emphasis on industrialized countries, not including the U.S. This course is normally offered in the spring semester of odd-numbered years.

#### **3113 HISTORY OF WESTERN POLITICAL THOUGHT**

Prerequisite: POLS-2113 or POLS-2213.

The course of political thought in the West from Plato and Aristotle to Dewey, Freud and Russell. This course is normally offered in the fall semester of odd-numbered years.

#### **3213 AMERICAN POLITICAL THOUGHT**

Prerequisite: POLS-2113 or POLS-2213.

History of American political ideas as shown by our American political institutions, legislation and constitutional forms, and the writings of American statesmen, political leaders, and philosophers. This course is normally offered in the fall semester of even-numbered years.

#### **3313 LEGAL AND LEGISLATIVE ANALYSIS**

Prerequisites: Sophomore standing and POLS-2113.

A workshop format teaching the analysis of statutory and case law in the United States. Workshop topics include briefing cases, researching cases and statutes, writing legal memos, writing legal outlines, and taking hypothetical case exams. Developing these skills is excellent preparation for law school. This course is normally offered in the spring semester of even-numbered years.

#### **3413 THE PRESIDENCY AND CONGRESS**

Prerequisite: POLS-2113.

A survey of the internal operation of the two major branches of the national government, especially in the context of foreign policy and making the national budget. A second major issue is the impact of partisanship on presidential-congressional relations and public policy. This course is normally offered in the spring semester of even-numbered years.

#### **3513 INTERNATIONAL POLITICAL ECONOMY**

Prerequisite: POLS-2213.

A survey of the organizations and the institutions that govern international trade and finance, controversies involving free trade, tensions between developed and developing countries, and the linkages between global capitalism and war. This course is normally offered in the fall semester of even-numbered years.

#### **3613 POLITICAL PARTIES AND INTEREST GROUPS**

Prerequisite: POLS-2113.

An examination of the role of political parties and interest groups as intermediary organizations that connect the public to policy makers. The first part of the course focuses upon political parties and elections, and the second part of the course examines lobbying, political action committees (PAC's), and the problem of political corruption. This course is normally offered in the fall semester of odd-numbered years.

#### **3713 STATE AND LOCAL POLITICS**

Prerequisite: POLS-2113.

A survey of the local politics and policies that most people directly encounter in daily life. Students learn the basic institutional structures and municipal governments in the United States and explore local controversies involving education, land use, and economic development. Students implement different theories of local government in a computer simulation. This course is normally offered in the fall semester of even-numbered years.

#### **3813 CONTEMPORARY POLITICAL IDEOLOGIES**

This course is a study of the political patterns of today's world, explaining the instruments, functions, and theories intertwined in modern ideologies. Emphasis will be placed on the predominant theories of democracy, communism and the aspects of an authoritarian regime. This course is normally offered in the fall semester of even-numbered years.

#### **4113 CONSTITUTIONAL LAW**

Prerequisite: POLS-1213 or POLS-2113.

A study of current public law and constitutional law court cases which acquaint the student with official interpretation of the Constitution and the lawmaking and judicial role of the Supreme Court. This course is normally offered in the spring semester of odd-numbered years.

#### **4213 THEORIES AND ETHICS IN INTERNATIONAL RELATIONS**

This course will examine three major themes relevant to ethics and international affairs: the discussion of contemporary theories regarding the nature of the international system, the problem of morality in the anarchical international system, and the ethical dimension of contemporary issues. This course is normally offered in the fall semester of odd-numbered years.

#### **4413 INTERNATIONAL CONFLICT**

Prerequisite: POLS-2113 or POLS-2213

An examination of the causes of conflict, the ethics of conflict, conflict management, and conflict resolution. The first section of the course will discuss the causes and ethics of violence while concentrating on riots, terrorism, revolution, and other expressions of conflict. The second section of the course will examine interstate conflict, including war. The course readings are interdisciplinary and include some sociology, psychology, anthropology, and history. This course is normally offered in the spring semester of odd-numbered years.

#### **4713 POLITICAL RESEARCH SEMINAR**

A capstone seminar giving political science majors the opportunity to further develop their research skills by delving into the world of political data analysis. Students will work closely with faculty to create, develop and produce a significant research project in preparation for graduate school. This course is offered in the spring of odd numbered years.

#### **4813 SELECTED TOPICS IN POLITICAL SCIENCE**

The contents of this course vary based on the needs of students and the current central issues in political science. Course may be repeated. This course is offered as needed.

#### **4900 INDEPENDENT STUDY IN POLITICAL SCIENCE**

Provides mature students an opportunity for individual research and guided readings. (1-3 hours) This course is offered as needed.

## **PSYCHOLOGY (PSYC)**

#### **1113 GENERAL PSYCHOLOGY I**

An introduction to the fundamental aspects of modern scientific psychology. Included in the study are the history of psychology, methods used in the field, learning theory, motivation, emotion, and mental disorders. The student is stimulated to apply psychological principles to life situations. This course is normally offered every semester.

#### **1211 INTRODUCTORY SEMINAR IN PSYCHOLOGY**

A course which introduces the psychology major to the field of psychology as a career. Major emphasis is placed on preparation for graduate school, taking the Graduate Record Exam (GRE) and the different career options within the field of psychology. Guest speakers are utilized. This course is normally offered in the spring semester.

#### **2223 GENERAL PSYCHOLOGY II**

Prerequisite: PSYC-1113.

Second introductory class for the field of psychology. This course is primarily for majors or minors in psychology and includes units on social psychology, human learning, remembering and forgetting, testing, the brain and psychological therapy. The course completes the student's preparation for upper level psychology courses. This course is normally offered in the spring semester.

#### **2413 INTRODUCTORY PSYCHOLOGICAL STATISTICS**

Elementary statistics with social and behavioral applications. (Same as SOCI-2413.) This course is normally offered in the fall semester.

#### **3213 ADVANCED PSYCHOLOGICAL STATISTICS**

Prerequisite: PSYC-2413.

An intermediate course exploring the application of more advanced statistical methods used in research in psychology and related fields. Emphasis will be placed on the major concepts of the methods and on the practical application of these statistics. Specific topics covered are factorial analyses of variance, including repeated measures design and post hoc analyses, linear and multiple regression, analysis of covariance and non-parametric statistics including chi-square and log linear analyses. This course is normally offered in the spring semester.

#### **3313 ABNORMAL PSYCHOLOGY**

Prerequisite: PSYC-1113.

A study of the definition, diagnosis and treatment of abnormal behavior. This course is normally offered in the spring semester.

#### **3413 SOCIAL PSYCHOLOGY**

Prerequisite: PSYC-1113.

A study of behavioral consequences of group and individual interaction. (Same as SOCI-3413.) This course is normally offered in the fall semester of odd numbered years.

#### **3523 DEVELOPMENTAL PSYCHOLOGY**

Prerequisites: PSYC-1113.

The physical, mental and social development of the normal individual from conception through adolescence. This course is normally offered every semester and summer. This course is normally offered every semester.

#### **3524 DEVELOPMENTAL PSYCHOLOGY: A LIFESPAN APPROACH**

Prerequisite: PSYC-1113 and admission to teacher education or special approval.

The physical, mental, and social development of the normal individual from conception through death and dying. This course is normally offered every semester.

### 3573 PSYCHOLOGY OF RELIGION

A study of the relation between social dynamics, culture and religion, with emphasis upon Christianity. Special attention is given to psychological and sociological bases of the religious life. (Same as BIBL-3573 and SOCI-3573.) This course is offered as needed.

### 3613 ADOLESCENCE AND EARLY ADULTHOOD

Prerequisite: PSYC-1113.

A study of the developmental process of adolescence and early adulthood. It will focus on biological, cognitive, and socio-emotional issues as they pertain to the ongoing changes in this time of the life cycle. Attention will be given to issues of gender, culture, family relationships, peer relationships, sexuality, and education. Special attention will also be given to issues that young adults face as they venture into collegiate life, career exploration and new family roles.

(Same as FMST-3613.) This course is normally offered in the fall semester of odd numbered years.

### 3713 PERSONALITY

Prerequisite: PSYC-1113.

Structure and dynamics of personality development. This course is normally offered in the fall semester of even numbered years.

### 3723 ADULT DEVELOPMENT AND AGING

A study to include physical and health factors in aging; psychological aspects of aging; marriage, family and community relationships of older persons; economic and vocational factors in aging; perspectives on death, dying and grief; aging and institutional care; aging and the law; and the future of social intervention, both public and private. (Same as FMST-3723 and SOCI-3723.) This course is normally offered spring semester.

### 3813 THEORIES OF COUNSELING AND PSYCHOTHERAPY

Prerequisite: PSYC-1113.

An introduction to the major theories of counseling and psychotherapy. Focus will be placed on understanding the theories of Freud, Adler, Jung, Rogers, Perls, Ellis and Glasser, and on appreciating the complexity of helping others in a counseling relationship. This course is normally offered in the fall semester of even numbered years.

### 3913 PSYCHOLOGY OF CRIME

Prerequisite: PSYC-1113.

Psychological aspects of criminal and anti-social behavior, including comparison of psychological and legal factors in criminal investigation and testimony. (Same as SOCI-3523.) This course is normally offered in the spring semester of odd numbered years.

### 3933 CYBERNETICS AND SYSTEMS THEORY

Prerequisite: PSYC-1113.

An introduction to the major underlying theoretical foundations of family therapy. The course will explore the historical development of systems theory and cybernetics from its origins in the 1940s in the thinking of mathematicians, physicists, biologists and engineers to the pioneering work of Bateson and his colleagues in the late '50s and their application of cybernetics to the family. The course will cover the work of Murray Bowen. The basic concepts of systems theory will be discussed and contrasted with the more common Western, analytical approach that has dominated thinking in psychology since the time of Freud. (Same as FMST-3933.) This course is normally offered in the fall semester.

### 4113 MOTIVATION AND EMOTION

Prerequisites: PSYC-2223 and PSYC-3013.

Theoretical analysis of purposive behavior drives and motives as well as biological and social origins. This course is normally offered in the spring semester of even numbered years.

### 4213 PSYCHOLOGY OF LEARNING

Prerequisite: PSYC-1113.

The study of experimental psychology in the learning situation. This course is normally offered in the spring semester of odd numbered years.

### 4313 ORGANIZATIONAL BEHAVIOR

Prerequisite: PSYC-1113.

Psychology of employee selection, training, proficiency evaluation, motivation, morale, and reaction to working conditions. (Same as MGMT-4313 and SOCI-4313.) This course is normally offered in the spring semester.

### 4323 INTRODUCTION TO MARITAL AND FAMILY THERAPY

Prerequisite: PSYC-1113.

An introduction to the field of marital and family therapy. It will present the history of systems therapy, including the importance of systems theory to the continuing development of the discipline. Special emphasis will be placed on the current status of marital and family therapy including the importance of constructivist theories. The course will also present the major theories of marital and family therapy that have defined the field for the last 40 years. This will be a systemic, experiential, discussion-based class that will require active participation from each student. (Same as FMST-4323.) This course is normally offered in the spring semester of even numbered years.

### 4413 BIOLOGICAL PSYCHOLOGY

Prerequisite: PSYC-1113.

A study of the nervous system and other physiological correlates of behavior. This course is normally offered in the fall semester of odd numbered years.

### 4423 DRUGS AND PSYCHOPHARMACOLOGY

Prerequisite: PSYC-1113.

An advanced course in biological psychology, focusing on the effects of drugs on the human nervous system. It will explore drugs of abuse, emphasizing how these drugs work in the brain to produce their behavioral effects. Special attention will be given to the topic of addiction. The course will also focus on psychopharmacology, specifically the treatment of mental health disorders via the prescribing of psychoactive agents. The course will focus on the treatment of anxiety disorders, mood disorders and psychotic disorders through medication. Attention will be given to how these drugs work in the brain. This course is normally offered in the fall semester of even numbered years.

### 4613 INTRODUCTION TO PSYCHOLOGICAL TESTING

Prerequisite: PSYC-2413.

An overview of the theory and content of evaluation instruments commonly used in fields of psychology to assess achievement, intelligence, special aptitudes and personality. General principles of construction, validation, administration, scoring, and interpretation are covered along with brief descriptive overviews of widely used instruments. This course is normally offered in the spring semester of odd numbered years.

### 4623 EXPERIMENTAL PSYCHOLOGY

Prerequisite: PSYC-2413.

Planning, executing, analyzing data, and writing up results of psychological research projects. Methods and problems encountered are explored. This course is normally offered in the fall semester.

### 4653 RESEARCH SEMINAR

Prerequisite: PSYC-4623.

The capstone course in the psychology program and a follow-up to Experimental Psychology (PSYC-4623). Students will learn SPSS – the Statistical Package for the Social Sciences – and complete their own individual research project and paper, including the collection and analysis of data. The final goal will be making a presentation of their findings to the appropriate student convention. Much of the class will consist of individual instruction and laboratory work. (Same as FMST-4653.) This course is normally offered in the spring semester.

### 4713 HISTORY AND SYSTEMS IN PSYCHOLOGY

Prerequisite: PSYC-1113.

A comprehensive study of the history of psychological thought beginning with philosophical foundations and continuing to the present. The course focuses on major contributions and systems with which they are associated. This course is normally offered in the spring semester.

### 4733 PROFESSIONAL, ETHICAL AND LEGAL ISSUES

Prerequisite: Senior standing.

A study of the contemporary ethical considerations, legal standards and professional issues that influence the work of psychologists, counselors and other mental health officials. Specific attention will be given to the Ethical Standards of the APA, ACA and AAMFT, as well as Oklahoma State Law governing the behavior of researchers and psychotherapists. The course will focus on specific ethical dilemmas throughout the class, including, among others, confidentiality, dual relationships, professional relationships, assessment and research. (Same as FMST-4733.) This course is normally offered in the fall semester of odd numbered years.

### 4810 PSYCHOLOGY SEMINAR

Prerequisite: PSYC-1113.

Content varies. Course may be repeated. (1-4 hours, depending on course content.) c

### 4820 PRACTICUM IN PSYCHOLOGY I

A course designed to give advanced psychology students "hands on" experience in the field of psychology of interest to them. Students complete 60 hours of supervised volunteer work at a field site and meet one hour a week with a supervising instructor and other practicum students. Class time focuses on student experiences in a group discussion format. Possible practicum sites include schools and community social service agencies, along with opportunities for research. Enrollment by permission only. (1-3 hours) This course is normally offered in the spring semester.

### 4830 PRACTICUM IN PSYCHOLOGY II

Requirements are the same as Practicum I. Students have the option of continuing in the same practicum setting or switching to another site. (1-3 hours) This course is normally offered in the spring semester.

### 4900 INDEPENDENT STUDY IN PSYCHOLOGY

Assigned research, readings and reports based on the needs of the individual student. May be taken only by junior or senior psychology majors or minors with approval of the departmental chair. (1-3 hours) This course is normally offered in the spring semester.

## RELIGIOUS EDUCATION (RLED)

### 2512 PERSONAL EVANGELISM

Includes the methods and approaches for doing personal Bible instruction along with intensive study on the biblical issues that typically arise in doing such studies. Non-textual. (Same as BIBL-2512.) This course is offered every semester.

### 3113 TEACHING THE BIBLE

A course designed to help students prepare Bible lessons that are a good development of a text or a Bible topic and to present it in a way that will illuminate the teaching of scripture. Courses in religious education of children, adolescents, and adults will build on the foundation laid in this course. This course is normally offered in the fall semester.

### 3222 RELIGIOUS EDUCATION OF CHILDREN

A study of the age characteristics, motivational principles, learning methods and curriculum for teaching the Bible to children from birth to age 12. (Same as BIBL-3222 and YTMN-3222.) This course is normally offered every semester.

### 3223 ADMINISTERING LOCAL CHURCH AND BIBLE SCHOOL PROGRAMS

This course is designed to provide the student with a comprehensive knowledge of the historical development, basic work, leadership functions, organization, and contemporary developments in the local church. Within the setting of local church organization and functioning, the student will be guided to understand how to organize and administer the Church's Bible School program. The student's understanding will be informed through the foundations for administration and leadership, administrative principles and procedures, and educational leadership in the local church. This course is normally offered in the spring semester of odd numbered years.

### 3232 CURRICULUM DEVELOPMENT FOR CHILDREN'S MINISTRY

A study of issues in children's ministry such as curriculum evaluation, understanding of learning styles and multiple intelligences, traditional and rotating learning and curriculum for special-needs children. Course will culminate in the writing of a thirteen week curriculum for children. This course is normally offered in the spring semester of odd numbered years.

### 3413 MINISTRY TO COLLEGE AND UNIVERSITY STUDENTS

An examination of the unique aspects of ministry on state and Christian college and university campuses. Attention will be given to community building, counseling, educational methods, and evangelism. The workings of a Bible Chair and integration into congregational life will also be studied. This course is offered in the as needed.

### 3612 SPIRITUAL DEVELOPMENT OF CHILDREN

A study of the spiritual development of children as it applies to both churches and parents. Study will focus on how Scripture, tradition, reason, and experience are connected in shaping a child's spiritual development. Through reading, interviewing, and assignments students will learn first-hand how to better equip churches and parents to fulfill this role. (Same as YTMN-3612.) This course is normally offered in the fall semester of even numbered years.

### 4112 MINISTRY TO WOMEN

A course which builds on the course in Preparation and Delivery of Religious Speeches to prepare women to teach and speak to women in classes and public events and to lead other women's activities in the church. This course is offered as needed.

### 4213 RELIGIOUS EDUCATION OF ADOLESCENTS

A study of the age characteristics, motivational principles, learning methods and curriculum for teaching the Bible to adolescents 13-18 years old. This course is normally offered in the fall semester.

### 4222 RELIGIOUS EDUCATION OF ADULTS

A study of the age characteristics, motivational principles, learning methods and curriculum for teaching the Bible to adults. This course is normally offered in the fall semester of even numbered years.

### 4313 VOLUNTEERS, PARENTS, AND STAFF IN YOUTH AND FAMILY MINISTRY

A course designed to assist churches in mobilizing volunteers to work with adolescents. Several programs used in churches currently will be reviewed and critiqued. Several aspects of volunteer programs will be discussed in detail (e.g., commitment, safety, legal issues, age, relieving volunteers, etc.). Interviews with volunteers in local churches will be used to understand from both sides the joys and frustrations involved in working with adolescents in a church setting. (Same as YTMN-4313.) This course is normally offered in the spring semester.

### 4412 SPECIAL ISSUES IN CHILDREN'S MINISTRY

A focus on special issues in children's ministry such as outreach programs (VBS, etc.), teacher burn-out, training, appreciation programs, programs for special needs students, and legal issues such as building security, screening of volunteers, and reporting abuse. This course is normally offered in the spring semester of odd numbered years.

### 4812 PRACTICAL EXPERIENCE IN RELIGIOUS EDUCATION I

Practical experience in a church situation under the guidance of an experienced teacher or supervisor. By approval only. This course is normally offered every semester.

### 4822 PRACTICAL EXPERIENCE IN RELIGIOUS EDUCATION II

Practical experience in a church situation under the guidance of an experienced teacher or supervisor. By approval only. This course is normally offered every semester.

### 4824 PRACTICAL EXPERIENCE IN RELIGIOUS EDUCATION

Combination of RLED-4812 and 4822. This course is normally offered every semester.

### 4830 SPECIAL STUDIES IN RELIGIOUS EDUCATION

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

### 4900 INDEPENDENT STUDY IN RELIGIOUS EDUCATION

Assigned readings, reports or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college. (2-3 hours) This course is offered as needed.

## SOCIOLOGY (SOCI)

### 1113 PERSPECTIVES IN SOCIOLOGY

A survey of the following areas: society and culture, personality, social processes, human collectivities, population and communities, social institutions, and social change. This course is normally offered in the fall semester of even numbered years.

### 2413 SOCIAL STATISTICS

Elementary statistics with social and behavioral applications. (Same as PSYC-2413.) This course is normally offered in the fall semester.

### 2423 PARENT-CHILD RELATIONS

Opportunities, responsibilities and problems faced by parents in guiding the development of children, emphasizing recent research in the area of parent-child relationships. (Same as FMST-2423.) This course is normally offered in the spring semester.

### 3143 INTRODUCTION TO ASIAN CIVILIZATIONS

Prerequisite: Junior standing  
Introduces the major cultural themes of East, Southeast, and South Asia. Students will learn about the geographical, social, political, economic, cultural and religious features of the four major regions of Asia. Fulfills the core curriculum non-Western Civilization requirement. (Same as MISS-3143.) This course is offered as needed.

### 3413 SOCIAL PSYCHOLOGY

Prerequisite: PSYC-1113  
Motivation and personality in social context. (Same as PSYC-3413.) This course is normally offered in the fall semester of odd numbered years.

### 3513 WORLD RELIGIONS

Prerequisite: Junior standing  
A comparative study of the beliefs and practices, as well as the historical and sociological impact, of several of the world's principal religious traditions. These include indigenous traditions, Judaism, Islam, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Fulfills the core curriculum non-Western civilization requirement. (Same as MISS-3513.) Non-textual. This course is normally offered every semester.

### 3523 SOCIOLOGY OF CRIME

Prerequisite: PSYC-1113  
Psychological aspects of criminal and anti-social behavior, including comparison of psychological and legal factors in criminal investigation and testimony. (Same as PSYC-3913.) This course is normally offered in the spring semester of odd numbered years.

### 3573 SOCIOLOGY OF RELIGION

A study of the relationship between social dynamics, culture and religion, with emphasis upon Christianity. Special attention is given to psychological and sociological bases of the religious life. (Same as BIBL-3573 and PSYC-3573.) This course is offered as needed.

### 3613 CULTURAL ANTHROPOLOGY

Suggested prerequisite: SOCI-1113  
An introduction to the concept and practice of cultural analysis with an emphasis on enhancing students' cultural intelligence in regard to cultural differences, ethnocentrism and cultural change. Significant attention is devoted to the anthropology of religion. Fulfills the core curriculum non-Western civilization requirement. (Same as MISS-3613.) Non-textual. This course is normally offered in the spring semester of odd numbered years.

### 3713 CONTEMPORARY ETHICS

A brief history of ethical theory in Western civilization and a survey of several modern secular ethical systems. These are contrasted with biblical principles and Christian systems during discussions of specific topics such as sexuality, marriage, divorce, abortion, euthanasia, the relation of Christians to the state, wealth and poverty, war and peace, race relations, and social justice. (Same as BIBL-3713.) This course is normally offered in the fall semester of odd numbered years.

### 3723 GERONTOLOGY

A study to include physical and health factors in aging; psychological aspects of aging; marriage, family and community relationships of older persons; economic and vocational factors in aging; perspectives on death, dying and grief; aging and institutional care; aging and the law; and the future of social intervention, both public and private. (Same as FMST-3723 and PSYC-3723.) This course is normally offered in the spring semester.

### 4633 INTERCULTURAL COMMUNICATION I

Prerequisite: ENGL-2113  
A survey of the basic concepts of how people communicate effectively across cultural boundaries, with special attention given to the complex nature culture plays in



communication. ENGL-4633 fosters in students an understanding and appreciation of their own culture and cultural patterns of communication and those of other cultures. (Same as COMM-4633, ENGL-4633 and MISS-4633.) This course is normally offered in the spring semester of odd numbered years.

#### **4643 INTERCULTURAL COMMUNICATION II**

Prerequisite: ENGL-2113.

A continuation of SOCI-4633, typically taught while a student is living in a foreign culture. (Same as ENGL-4643 and MISS-4643.) This course is normally offered in the fall semester of odd numbered years.

## **SPANISH (SPAN)**

#### **1113 BASIC SPANISH I**

Foundational principles and practice of speaking, understanding, reading and writing Spanish and an introduction to Spanish culture for those with no background in Spanish. This course is normally offered every semester.

#### **1213 BASIC SPANISH II**

Prerequisite: SPAN-1113, one year of Spanish in high school or the equivalent with permission of the instructor.

Continuation of Basic Spanish I, enabling the student to read, write, understand and respond in basic Spanish and to be aware of cultural differences. This course is normally offered every semester.

#### **2113 INTERMEDIATE SPANISH I**

Prerequisite: SPAN-1213 or the equivalent with the permission of the instructor.

A review of Spanish grammar with extensive conversation and cultural readings. This course is normally offered in the fall semester.

#### **2123 INTERMEDIATE SPANISH II**

Prerequisite: SPAN-2113 or the equivalent with the permission of the instructor.

Guided development in spoken and written Spanish designed to increase vocabulary and improve usage. This course is normally offered in the fall semester.

#### **3213 SPANISH LITERARY READINGS**

Prerequisite: SPAN-2113, SPAN-2123 or the equivalent with the permission of the instructor.

A survey of Spanish literature based on selected passages and short works. This course is normally offered as independent study and only by permission of the instructor.

#### **3223 HISPANIC CIVILIZATION**

Prerequisites: SPAN-2113, SPAN-2123 or the equivalent with the permission of the instructor.

An overview of Spanish-speaking civilizations through geography, history, art, architecture and music. The course features lecture, discussion, and composition in Spanish. This course is normally offered in the fall semester of odd numbered years.

#### **4113 STUDIES IN SPANISH LITERATURE**

Prerequisite: SPAN-2123.

A study of major authors, works, and movements in Spanish literature. This course may be repeated as the content is changed. This course is normally offered in the spring semester of even numbered years.

#### **4213 STUDIES IN LATIN AMERICAN LITERATURE**

Prerequisite: SPAN-2123.

A study of the major authors, works and movements in Latin American literature. This course may be repeated as the content is changed. This course is normally offered in the spring semester of or odd numbered years.

#### **4313 ADVANCED GRAMMAR AND COMPOSITION**

Prerequisite: SPAN-2123.

A survey of the Spanish language and its grammatical system, with specific attention to those skills required for advanced language proficiency. This course is normally offered in the fall semester of even numbered years.

#### **4413 ADVANCED SPANISH CONVERSATION**

Prerequisite: SPAN-2123.

Guided development in oral proficiency, emphasizing pronunciation, vocabulary development, and mastery of complex structures and public presentations. This course is normally offered as independent study and by instructor permission only.

#### **4513 SPANISH LINGUISTICS**

Prerequisite: SPAN-2123.

A study of the history of the Spanish language, its phonemic, morphemic and syntactical features and its dialectal applications in Spain, Latin America, and the United States. This course is normally offered every other fall semester of even-numbered years.

#### **4613 ADVANCED CONVERSATION AND GRAMMAR**

Prerequisite: SPAN-2123.

An intense review of the grammatical concepts of Spanish with a focus on applying them in conversation and oral presentations. Pronunciation and vocabulary development will

be emphasized as well. This course is normally offered every other spring semester of even-numbered years.

#### **4623 SENIOR SEMINAR FOR SPANISH**

Prerequisites: Senior standing and departmental approval

A capstone course giving Language and Literature majors the opportunity to synthesize previous work, to interact with the faculty at an advanced level and to practice research skills in preparation for graduate school or for entry into their profession. This course is normally offered every semester. It is recommended that students take it their last or second to last semester.

#### **4711 SPANISH IMMERSION LAB**

Prerequisite: SPAN-2123, four years of high school Spanish or the equivalent with permission from the Instructor.

An Intense Spanish conversation and Hispanic culture course. This course is normally offered every semester.

#### **4813 TOPICS IN HISPANIC LITERATURE I, II OR III**

Three advanced, in-depth self-paced studies of a particular area of Spanish history literature offered on a rotating basis, one per summer.

#### **4900 INDEPENDENT STUDY**

A reading, research or writing project related to a student's special interest or need. May be taken only by juniors or seniors with approval of the departmental chair. This course is offered as needed.

Retroactive Credit for Foreign Language – See page 45.

## **STUDENT DEVELOPMENT (SDEV)**

#### **0103 INTERMEDIATE ALGEBRA**

Designed for students with a math ACT score of 22 or below in preparation for one of the three mathematics courses which satisfy the university's core curriculum requirements. This course reviews high school algebra including polynomials, equation solving and graphing. This course is graded with a (P) Passing or (NP) No Passing grading system. This course does not satisfy the core curriculum mathematics requirements. This course is normally offered every semester.

#### **0123 DEVELOPMENTAL WRITING**

A grammar and writing course designed to develop the basic skills necessary for successful college study. The course may be required as a prerequisite to ENGL-1123-Communication I: Written Communication depending on the student's ACT verbal scores or other equivalent measures. This course is graded with a (P) Passing or (NP) No Passing grading system. Students enrolled in SDEV-0123 must make a P (Passing) in order to enroll in ENGL-1123-Communication I: Written Communication. Not applicable for credit in major or minor. This course is normally offered every semester.

#### **0133 PREPARATION FOR COLLEGE CHEMISTRY**

A study of math and logic skills required to understand and master scientific principles, and application of these skills to chemistry problems. Does NOT satisfy ANY core requirement. Lecture -- 3 hours. This course normally offered in the fall semester and in the summer.

#### **1101 FRESHMAN SEMINAR**

This course will focus on formulating strategies for making the most of a Christian education by becoming fully involved in the learning community, by developing healthy relationships, and by forming a positive foundation for their future. It is required for all students with fewer than 32 semester hours. This course is normally offered every semester.

#### **1102 PERSONAL AND PROFESSIONAL STRATEGIES FOR SUCCESS**

A comprehensive course designed to assist students to maximize their success at the university and after graduation. Time management, conflict resolution, career exploration and preparation, and learning styles and strengths will be covered. In addition to in-class activities, students will participate in peer mentoring and other enhancement activities. This course is normally offered every semester.

#### **1201 SOFTWARE FUNDAMENTALS**

Fundamentals of a software program. Content may include Word, FrontPage, PowerPoint, Excel, and Access. This course is normally offered every semester.

#### **3111 LEADERSHIP SEMINAR**

A study of the definitions of leadership, leadership skills and models of leadership in scriptures, politics, and business. Practical applications of leadership principles to the OC social club system, including daily administration of the club system through Inter-Club Council (ICC). Seminar is open only to the presidents of social service clubs. This course is offered as needed.



## **YOUTH MINISTRY AND FAMILY MINISTRY (YTMN)**

### **2123 COUNSELING ADOLESCENTS**

An introductory class of current problems that adolescents face in American culture (e.g., self-acceptance, peer pressure, friendship and dating, pregnancy, anorexia nervosa, music, drugs and drinking, sexual acting out). The class will involve reading, listening, and dialoging with guest speakers from the field, listening to and discussing lectures, critiquing videos, and participating in and critiquing simulations in the classroom from biblical and practical perspectives. Field visits to the juvenile court system and interviews with local youth ministers will allow students to compare classroom instruction with the real world of adolescents. A brief introduction to family systems will be included. This course is normally offered in the fall semester.

### **2213 INTRODUCTION TO YOUTH AND FAMILY MINISTRY AS A PROFESSION**

An introduction to the field of study in youth and family ministry. Emphasis will be given to the private and the professional aspects of this profession. Some private issues such as spiritual disciplines, health, family relationships, and personality type will be discussed. Professional issues centering on ethics, integrity, sexuality, education, job skills, leadership, youth ministry tools and resources, teaching, youth and family ministry as a lifetime career, and others will be discussed as well. Concepts will be given to students to begin developing a philosophy of youth and family ministry. Field trips to different parts of Oklahoma City/Edmond will be required for students to interview people in several different contexts working in this profession. This course is normally offered in the spring semester.

### **2233 EXPERIENTIAL TEACHING METHODS IN THE OUTDOORS**

An introduction to teaching adolescents using experiential teaching methods used in outdoor adventure learning. Emphasis will be given to the preparation and presentation of object lessons in the outdoors using biblical texts. Students will work in groups to plan and carry out a 2-3 day outdoor adventure. Interviews with camp directors and team building organizations will give students up-to-date experience in contemporary settings where adolescents might experience outdoor learning opportunities. This course is normally offered in the fall semester.

### **3113 EVANGELISM, DISCIPLESHIP, AND SPIRITUAL FORMATION WITH ADOLESCENTS**

Students will study and explore methods of evangelism particularly effective with adolescents. One-on-one Bible studies, small group Bible studies, and large evangelistic group meetings will be evaluated for effectiveness in today's culture. Emphasis will be given to the process of spiritual formation within the family before and after the conversion experience. Methods of discipleship will be explored and practiced during the course. Students will develop a presentation of their own faith story and work on their own continuing spiritual formation. This course is normally offered in the spring semester.

### **3203 MODELS AND PROGRAMMING IN YOUTH MINISTRY**

This course introduces the student to the current models of youth ministry and programming (i.e., PDYM, Cells, Relational, Young Life, FCA, Sonlife, K-Life). Philosophies of the different models will be discussed allowing the student to integrate a model(s) into his/her philosophy of ministry. Types of programming will be discussed that fit one or several of the models. Students will present a one-year program of activities and learning opportunities for adolescents using the student's chosen model and philosophy. Students will volunteer to work in a ministry that fits closely with the one(s) that they choose as a model. This course is normally offered in the spring semester.

### **3222 RELIGIOUS EDUCATION OF CHILDREN**

A study of the age characteristics, motivational principles, learning methods and curriculum for teaching the Bible to children from birth to age 12. This course is normally offered every semester. (Same as BIBL-3222 and RLED-3222.)

### **3612 SPIRITUAL DEVELOPMENT OF CHILDREN**

A study of the spiritual development of children as it applies to both churches and parents. Study will focus on how Scripture, tradition, reason, and experience are connected in shaping a child's spiritual development. Through reading, interviewing, and assignments students will learn first-hand how to better equip churches and parents to fulfill this role. (Same as RLED-3612.) This course is normally offered in the fall semester of even numbered years.

### **4113 ADOLESCENT CULTURE**

This course will provide information and learning experiences for students in the areas of adolescent spirituality, media influence, and overall cultural influences that affect the lives of adolescents. The course will focus on how a biblically-grounded spirituality can provide answers to the issues that adolescents face in our culture today. Fowler's Stages of Faith and research from The National Study of Youth and Religion will be used as a backdrop along with scripture to develop a working profile of adolescent spirituality. The use of audio and video media as well as the special moral problems of media and the effects media has on adolescents will be examined. This course is normally offered in the fall semester.

### **4313 VOLUNTEERS, PARENTS, AND STAFF IN YOUTH AND FAMILY MINISTRY**

This course will equip students to carry out Ephesians 4:11-13. Effective youth and family ministry requires help. Students will learn how to recruit and train volunteers. Equipping parents to do their God-given job (Deuteronomy 6:4-9) will be given priority in the course. Relationships with paid and volunteer staff will be discussed. Students will be required to volunteer at a local church during the semester in the youth and family ministry. (Same as RLED-4313.) This course is normally offered in the spring semester.

### **4822 YOUTH MINISTRY INTERNSHIP**

Prerequisites: BIBL-2713, one Youth Ministry class, and at least a sophomore standing. Students will work with a local church (or other approved organization working with adolescents with a spiritual emphasis) to gain experience in practical programming for ministry to middle and/or high school students. Students will be evaluated by an approved supervisor (youth minister, preacher, elder, deacon) at the church and an assigned field supervisor from the university. This course is normally offered every semester.

### **4823 YOUTH MINISTRY-TEACHING PRACTICUM**

Prerequisite: RLED-4213. Students will work with a local church during the spring or summer semester teaching middle or high school students a 13-week curriculum (Wednesday night or Sunday morning) approved by the church leaders. Students will be evaluated by an approved supervisor (youth minister, preacher, elder, deacon) at the church and an assigned field supervisor from the university. This course is normally offered in the spring and summer semesters.

### **4830 SPECIAL STUDIES IN YOUTH MINISTRY**

Content varies. Course may be repeated. (1-3 hours) This course is offered as needed.

### **4900 INDEPENDENT STUDY IN YOUTH MINISTRY**

Assigned readings, reports or projects based on the needs of the individual student. Normally taken only by juniors or seniors with approval of the dean of the college. (1-3 hours) This course is offered as needed.

# CALENDAR

## 2010 FALL SEMESTER

August 21	Saturday
August 30	Monday
September 6	Monday
September 24	Friday
October 12	Tuesday
October 21-22	Thursday-Friday
October 25-29	Monday-Friday
November 1-5	Monday-Friday
November 5-6	Friday-Saturday
November 8-12	Monday-Friday
November 15-19	Monday-Friday
November 19	Friday
November 24-26	Wednesday-Friday
December 13-16	Monday-Thursday
December 17	Friday
December 21	Tuesday

Residence halls open at 1:00 pm  
Classes begin for the Fall semester  
Last day to add classes and for new enrollment  
Last day to drop a class without a "W" on the transcript  
Six weeks progress reports due at noon  
Fall Break  
Senior pre-enrollment, Registrar's Office  
Junior pre-enrollment, Registrar's Office  
Homecoming Weekend  
Sophomore pre-enrollment, Registrar's Office  
Freshman pre-enrollment, Registrar's Office  
Last day to drop a class with a "W" on the transcript or withdraw  
Thanksgiving holiday, no classes, offices closed  
Final Exam Week  
Commencement  
Grades due at noon for Fall semester

## 2011 SPRING SEMESTER

January 8	Saturday
January 10	Monday
January 17	Monday
February 4	Friday
February 22	Tuesday
March 4-5	Friday-Saturday
March 7-11	Monday-Friday
March 14-18	Monday-Friday
March 21-25	Monday-Friday
March 28-April 1	Monday-Friday
April 4-8	Monday-Friday
April 8	Friday
April 25-28	Monday-Thursday
April 29	Friday
May 3	Tuesday

Residence halls open at 1:00 pm  
Classes begin for Spring semester  
Last day to add classes and for new enrollment  
Last day to drop a class without a "W" on the transcript  
Six weeks progress reports due  
Spring Visit / Spring Sing  
Senior pre-enrollment, Registrar's Office  
Spring Break  
Junior pre-enrollment, Registrar's Office  
Sophomore pre-enrollment, Registrar's Office  
Freshman pre-enrollment, Registrar's Office  
Last day to drop a class with a "W" on the transcript or withdraw  
Final Exam Week  
Commencement  
Grades due at noon for Spring semester

## 2011 SUMMER SEMESTER

May 3	Tuesday
August 18	Thursday
August 23	Tuesday

Classes begin  
Classes end  
Grades due at noon for Summer semester

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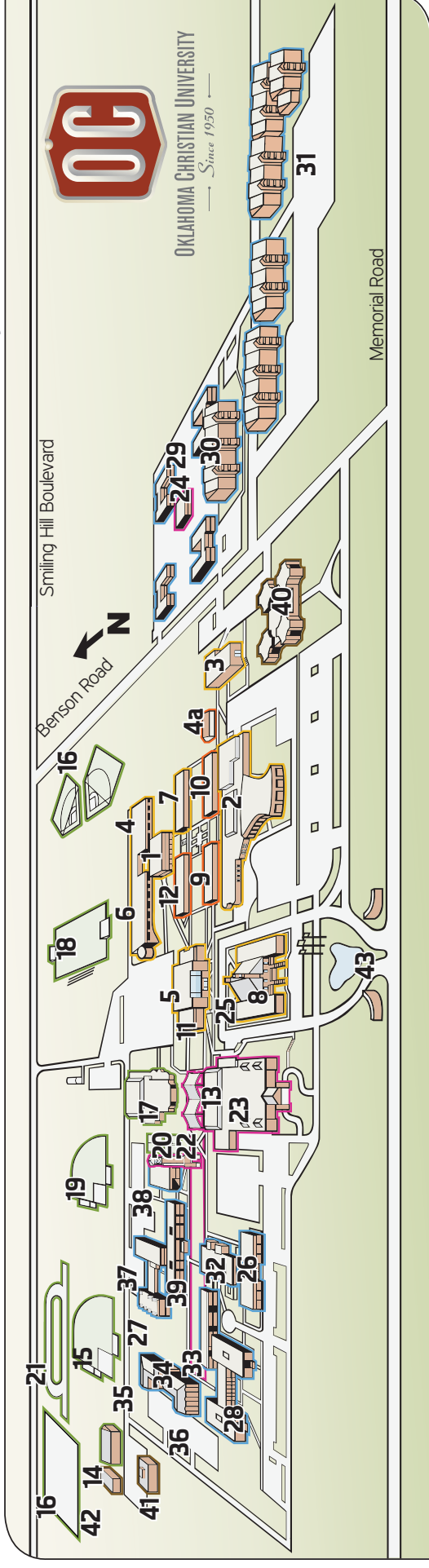


# CAMPUS MAP

Check out a virtual tour of the campus.

[www.oc.edu/virtualtour](http://www.oc.edu/virtualtour)

Oklahoma Christian University - 2501 E. Memorial Road, Edmond, OK



## Academics

- 1 Davison American Heritage (DAH)
  - Dept. of History & Political Science
  - Dept. of Psychology & Family Studies
- 2 Garvey Center for Liberal Arts (GC)
  - Dept. of Art & Design
  - Dept. of Communications
  - Dept. of Music
  - Hardeman Auditorium
  - Judd Theatre
  - McIntosh Conservatory / Recital Hall
- 3 Harvey Business Center (HBC)
  - School of Business Administration
- 4 Herold Science Hall (HSH)
  - Dept. of Biology
  - Dept. of Chemistry and Physics
- 4a Nursing Administrative Building
- 5 Mabree Learning Center (LC)
  - Beam Library
  - Career Services
  - Dept. of Language and Literature
  - Prince Engineering Center (PEC)
  - Dept. of Mathematical, Computer, and Information Sciences
  - School of Engineering
- 7 Vose Hall
- 8 Williams-Branch Center

## for Biblical Studies (WBC)

- College of Biblical Studies
  - Scott Chapel
- ## Administration / Offices
- 9 Benson Administration Building
    - Business Office
    - Executive Vice President
    - Special Events
  - 10 Cogswell-Alexander Hall (CAH)
    - Help Desk
    - International Programs
    - Registrar
  - 11 Executive Offices (in LC)
    - Advancement
    - Alumni
    - Marketing
    - President's Office
    - University Communications
    - Vice President for Academic Affairs
  - 12 Gaylord Hall
    - Admissions
    - Student Financial Services
    - Telecounseling
  - 13 Student Life Office (in Univ. Center)
    - Athletics
  - 14 The Barn (Old Gymnasium)

- 15 Dobson Field
- 16 Intramural Fields (Two Locations)
- 17 Payne Athletic Center
  - Dept. of Athletics
  - Dept. of Physical Education
  - Fitness Center / Swimming Pool
- 18 Soccer Field
- 19 Softball Field
- 20 Tennis Courts - Sand Volleyball
- 21 Vaughn Track

- ## Hangouts & Recreation
- 22 Lawson Commons
    - Freede Centennial Tower
    - Jack & Wanda McGraw Pavilion
  - 23 Gaylord University Center
    - Bookstore
    - Health and Wellness Center
    - Sodexo-Marriott Dining Hall
  - 24 Nowlin Center
  - 25 Thelma Gaylord Forum
  - 26 Living Quarters
  - 26 Davissson Hall
  - 27 RM Falls Hall
  - 28 Gunn-Henderson Hall
  - 29 Heritage Heights Apartments 1-4
  - 30 McNally House Apartments

- 31 Heritage Heights Apartments 6
- 32 Tinius-East Hall
  - Residence Life Office
- 33 Tinius-West Hall
- 34 University House Commons
- 35 University House North
- 36 University House South
- 37 Warlick Hall
- 38 Wilson-East Hall
- 39 Wilson-West Hall

- ## Miscellaneous
- 40 Enterprise Square
    - Academy of Leadership and Liberty
  - 41 Central Plant
  - 42 Maintenance Center
  - 43 Main Entrance



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