



JOHN BROWN UNIVERSITY
2016-2017 CATALOG
Undergraduate Studies

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This catalog contains policies and guidelines for the purpose of aiding students in planning their educational curriculum and is not to be considered a contractual agreement. Program requirements, course content, and other regulations are subject to change at the discretion of the controlling entities within the university.

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For information concerning the Graduate Programs or the Degree Completion Programs, please refer to the individual 2016-2017 Graduate or Degree Completion Program catalogs.

UNIVERSITY CALENDAR

2015-2017

FALL 2015

W 8/19 – F 8/21
F 8/21
Sa 8/22 - T 8/25
Sa 8/22
W 8/26
M 9/7
W 9/9
F 10/16
M 10/19 - T 10/20
F 10/23
M 11/2 - M 11/16
W 11/25 - F 11/27
M 12/14 – R 12/17
Sa 12/19

SPRING 2016

M 1/11
M 1/11 - T 1/12
M 1/11
W 1/13
W 1/27
F 3/4
F 3/11
M 3/21 - F 3/25
M 3/28
T 3/29 – M 4/11

M 5/2 – R 5/5
Sa 5/7

SUMMER 2016

(MAY TERM)

M 5/9
W 5/11
F 6/3
M 5/30
F 7/1

International Student Orientation
New Student Move-In
New Student Orientation
New Student Registration
Classes Begin
Labor Day Holiday
Last Day to Add a Course
Mid-semester Grades Due
Fall Break
Last Day to Drop a Course
Registration for Spring Term
Thanksgiving Holidays
Examination Week
Commencement Exercises

New Student Move-In
New Student Orientation
New Student Registration
Classes Begin
Last Day to Add a Course
Mid-semester Grades Due
Last Day to Drop a Course
Spring Break
Easter Monday
Registration for Fall Term
Good Friday Holiday
Examination Week
Commencement Exercises

Classes Begin
Last Day to Add a Course
Last Day to Drop a Course
Memorial Day Holiday
End of Term

FALL 2016

W 8/17 – F 8/19
F 8/19
Sa 8/20 - T 8/23
Sa 8/20
W 8/24
M 9/5
W 9/7
F 10/14
M 10/17 - T 10/18
F 10/21
M 10/31 – M 11/14
W 11/23 – F 11/25
M 12/12 – R 12/15
Sa 12/17

SPRING 2017

M 1/9
M 1/9 - T 1/10
M 1/9
W 1/11
W 1/25
F 3/3
F 3/10
M 3/20 – F 3/24

M 3/27 – M 4/10
F 4/14
M 5/1 – R 5/4
Sa 5/6

SUMMER 2017

(MAY TERM)

M 5/8
W 5/10
F 6/2
M 5/29
F 6/30

UNIVERSITY PROFILE

THE MISSION OF THE UNIVERSITY

The faculty and board of trustees have accepted the following statement as being an accurate expression of the university basic mission:

John Brown University provides Christ-centered education that prepares people to honor God and serve others by developing their intellectual, spiritual, and professional lives.

STATEMENT OF FAITH

The doctrinal position of the institution is contained in the following Articles of Faith which have been adopted by the National Association of Evangelical's:

1. We believe the Bible to be the inspired, the only infallible, authoritative word of God.
2. We believe that there is one God, eternally existent in three persons: Father, Son and Holy Spirit.
3. We believe in the deity of our Lord Jesus Christ, in His virgin birth, in His sinless life, in His miracles, in His vicarious and atoning death through His shed blood, in His bodily resurrection, in His ascension to the right hand of the Father, and in His personal return in power and glory.
4. We believe that for the salvation of lost and sinful people regeneration by the Holy Spirit is absolutely essential.
5. We believe in the present ministry of the Holy Spirit by whose indwelling the Christian is enabled to live a godly life.
6. We believe in the resurrection of both the saved and the lost; they that are saved unto the resurrection of life and they that are lost unto the resurrection of damnation.
7. We believe in the spiritual unity of believers in our Lord Jesus Christ.

EDUCATIONAL PHILOSOPHY

The faculty has expressed its purpose as sending forth graduates

Whose lives reflect the love of Christ

Through reverence toward God.

Through consecration to Christ and His Church.

Through knowledge of the Bible and appreciation of its principles.

Through participation in Christian activities with talents, means, and time.

Through tolerance, humility, and helpfulness to others.

Who possess intellectual integrity and an enthusiasm for continuing self-development

Through use of mental processes which lead to intelligent decisions.

Through familiarization with sources of information.

Through utilization of knowledge.

Through mastery of means of communication of ideas.

Who are able to function effectively in a multicultural world

Through a heightened awareness of diverse cultural contexts and values.

Through development of skills and attitudes necessary to interact, work, and minister with people of other cultures.

Through understanding the inclusiveness of God's Kingdom and the equality of all people before God.

Through formation of a Christian perspective of the world.

Who are eager and able to perform a share of the world's work

Through their willing response to God's unique plan.

Through working in chosen vocations with skill, efficiency, and dedication.

Through a cooperative and understanding attitude toward fellow workers.

Who make worthy contributions to their communities

Through active cooperation with other people toward general community improvement.

Through promoting wholesome entertainment, adequate educational programs, and other phases of community welfare.

Through exercising their political privileges in the spirit of Christ.

Through practicing the high ideals of love and justice toward all people.

HISTORY

John Brown University's rich history began with an enthusiastic evangelist, radio pioneer, educator, and author, John E. Brown, who recognized the need for an academic institution that would prepare young people to serve Christ. In 1919, with a goal of educating the "Head, Heart, and Hand," John Brown laid the foundation for the institution that would later be called John Brown University. The vision of JBU has been carried through its ninety-seven year history by the leadership of the founder, his son, John Brown Jr., his grandson, John Brown III, and Presidents George Ford, Lee Balzer, and now Charles Pollard.

Head

The university offers an education based on a liberal arts Core Curriculum and 43 undergraduate majors. Also available at JBU are academic opportunities for professionals and graduates. The JBU Degree Completion Program was established in 1993 to meet the needs of working adults and allows them to complete their undergraduate degree. In 1995, JBU began offering graduate classes. The Graduate School offers master's degrees in Business, Counseling, Fine Arts and Teacher Education.

Heart

Since its founding, JBU has sought to nourish the spiritual life of its students. Professors and students work together to integrate a Christian worldview with their understanding and practice of academic disciplines. Professors and staff also make themselves available to guide and mentor students in the faith.

Within the JBU community, there are a variety of opportunities for students to deepen and live out their faith. Chapel services are held three times a week and feature dynamic worship and gifted guest speakers. A wide variety of ministry opportunities are offered to students through the Office of Christian Formation.

Hand

Students also gain valuable professional and personal life-skills that equip them to serve in business, education, industry, ministry, the arts, and a variety of other fields. Students and graduates are encouraged to integrate faith in the workplace and in every area of their lives.

While the scope of JBU's mission has grown over the last 97 years, the central direction of that mission has remained the same: "Christ Over All."

LOCATION

John Brown University is located in Siloam Springs, in the economically vigorous region of Northwest Arkansas. Several city parks, as well as nearby attractions such as Beaver Lake and Devil's Den State Park, provide ample opportunity for outdoor recreation. Urban activities are easily available as well. Fayetteville and Bentonville, Arkansas, only 30 miles away, and Tulsa, Oklahoma, 80 miles away, offer shopping, dining, and a variety of cultural events.

THE STUDENT BODY

The student body of around 1,300 in John Brown University's traditional programs represents more than 40 states and more than 40 nations. Approximately 10-15% of the students have primary citizenship in countries other than the United States. This international group includes many members of families involved in Christian missionary work. Most of the students identify themselves as church members; the largest numbers belong to evangelical congregations.

Approximately 350 additional students participate in JBU's [Degree Completion Program](#) for adult learners.

[Graduate School](#) programs in Counseling, Leadership and Ethics, Business Administration, Higher Education Leadership, and Curriculum & Instruction areas include more than 600 enrollees.

ACCREDITATION

John Brown University is accredited by the Higher Learning Commission, <http://hlccommission.org>, (800) 621-7440 and is approved by the Arkansas State Department of Education.

The education preparation programs are accredited by the National Council for Accreditation of Teacher Education (NCATE). On July 1, 2013 NCATE consolidated with the Teacher Education Accreditation Council (TEAC) and formed the Council for Accreditation of Educator Preparation (CAEP) as the new accrediting body for educator preparation <http://caepnet.org>, (202) 223-0077.

The Bachelor of Science in Engineering Program, including electrical/computer, mechanical, or renewable energy concentrations, is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>, (410) 347-7700.

John Brown University's Construction Management degree is accredited by the American Council for Construction Education (ACCE), <http://www.acce-hq.org>, (210) 495-6161.

All business degree programs of the Donald G. Soderquist College of Business are accredited by the Accreditation Council for Business Schools and Programs (ACBSP), <http://www.acbsp.org>, (913) 339-9356.

The Bachelor of Science in Nursing Program has approval of the Arkansas State Board of Nursing (ASBN), University Tower Building, 1123 South University Ave., Suite 800, Little Rock, AR 72204-1619, (501) 686-2700, www.arsbn.org.

The United States Department of Justice has approved John Brown University for the education of foreign students.

COUNCIL FOR CHRISTIAN COLLEGES & UNIVERSITIES

John Brown University is a charter member of the Council for Christian Colleges & Universities (CCCU), a resource- and information-sharing association of 118 Christ-centered colleges and universities. Member schools, which must be accredited institutions, are committed to maintaining the highest academic standards within an environment which fosters moral and spiritual development in individuals and communities. Incorporated in 1982, the CCCU includes schools representing more than 30 denominations and offers numerous interchange programs in academics and assessment. Headquarters are located at 321 Eighth Street NE, Washington, DC 20002, www.cccu.org, (202) 546-8713.

SODERQUIST LEADERSHIP

Soderquist Leadership is a not-for-profit organization founded in 1998 in affiliation with John Brown University's College of Business. Located in Siloam Springs, Arkansas, Soderquist Leadership serves as a global resource for equipping people in the corporate, non-profit, and academic world with the transforming power of ethical leadership. Soderquist Leadership is named for Don Soderquist, Executive in Residence and former COO and Senior Vice-Chairman of Wal-Mart Stores, Inc.

Soderquist Leadership's energies are focused on equipping leaders through customizable training programs at the individual, team, or organizational level. Customers include corporations, not-for-profit organizations, and emerging leaders in graduate and undergraduate programs. Soderquist Leadership engages leaders through programs such as the Soderquist Leadership Summit for senior executives, the Milestone Leadership Intensive for middle managers, strategic planning and culture building for entire organizations, and team building programs on our adventure learning courses.

They also offer Soderquist Fellowships to top applicants of John Brown University's Master of Business Administration, Master of Science in Leadership and Ethics, and Master of Fine Arts programs. While working 35 hours per week for Soderquist Leadership, Soderquist Fellows receive full tuition and a stipend for a two-year experience, completing graduate degrees, contributing to the mission, and working alongside veteran business leaders.

Visit <http://www.soderquist.org/> to learn more.

THE CENTER FOR HEALTHY RELATIONSHIPS

Vision Statement

The [Center for Healthy Relationships](#) (CHR) exists to encourage and enrich relationships through the transforming power of biblically-based principles.

Mission Statement

The Center for Healthy Relationships equips people for healthy relationships through biblically-based consulting, education, enrichment, resources, research, and assessment.

Primary Goals

1. Provide innovative resources that promote healthy relationships by increasing Emotional and Relational Intelligence (ERQ™), teaching healthy communication and conflict management skills, and encouraging the development of a growth-focused mindset.
2. Provide informational and training events designed to instill Christ-centered principles of healthy relationships, with an emphasis on marriage relationships, not only in the JBU and CCCU communities, but also locally, regionally, nationally, and internationally.
3. Provide programs and resources for premarital, marital, and workplace relationship programs and educational opportunities across the life-cycle and socio-economic spectrum, in ways that strengthen churches, schools, community agencies, and corporations.
4. Consult with pastors, church, and parachurch leaders to assess (Church Relationship Assessment) and increase the effectiveness of existing marriage ministries and programs, to develop new courses and/or programs, and to equip leaders to facilitate the implementation of those programs.
5. Continue our work with institutions of higher education to help leaders assess (Student Relationship Assessment) the degree to which their efforts are making a measurable difference in the emotional, relational, and spiritual lives of their students.
6. Expand our ongoing efforts to increase awareness of the personal and corporate value of healthy marriages and relationships, and help Northwest Arkansas become a place that is known for healthy marriages and families.

RESOURCES FOR LEARNING

John Brown University Library

The two-story John Brown University library-also known as the Arutunoff Learning Resource Center-is the central location for resources supporting the research needs of the JBU community. The library is an important part of the academic program at JBU and functions as a partner in the teaching/learning process. The main collection consists of over 120,000 items, including books, microforms, and DVDs. In addition, the library subscribes to more than 90,000 periodical titles, nearly all of which are available electronically. The library also subscribes to 80 electronic databases (full-text periodicals, online reference resources, and indexes). The library provides access to 90,000 e-book titles, including 400 online reference books.

The professional library staff provides research and reference services to both individuals and groups, and efficient interlibrary loan services to the JBU community. The library facility includes large and small study rooms, a group research lab, quiet and comfortable spaces for reading, and 32 computers for student use.

In addition to resources in the main library, a number of materials are housed in three library branches. The Music Library, on the lower level of the Cathedral, contains music sound recordings, scores, and appropriate listening equipment. The Career Development Center Library, on the first floor of the Walker Student Center, houses materials related to vocational counseling and graduate school opportunities. The Soderquist Leadership Library is located in the Soderquist Business Center and contains materials relevant to business and ethics.

The Film Library is housed in the main library and contains films that have been selected based on their recommendation by the Academy of Motion Picture Arts and Sciences, the American Film Institute, or Spiritually significant films.

The gateway to the JBU Library is its web site, www.jbu.edu/library, where information about all library collections and services may be obtained. The library web site features an online catalog that can be accessed from any computer with an Internet connection. Students can connect to electronic databases through the campus network and via remote access. Reference questions and interlibrary loan requests can be made using online forms found at the web site, text messaging, or via e-mail at library@jbu.edu.

The JBU Library belongs to several networks and consortia. To provide efficient interlibrary loan services, the library is a member of the Online Computer Library Center (OCLC), which gives our users borrowing privileges to over 250 million items held in over 72,000 member libraries worldwide. The library belongs to ARKLink (a consortium of 47 academic libraries in Arkansas) and AMIGOS (a regional resource-sharing network). The library is a charter member of the Christian Librarian Association Network.

Special collections in the JBU library include the published materials of the school's founder, John E. Brown, Sr., materials of radio evangelist J. Vernon McGee, the Romig Juvenile Literature Collection, and the Gary and Carrie Oliver Marriage and Family Resource Room. In addition, the JBU Archives houses an extensive collection of artifacts related to the history of the university.

Information Technology Services

John Brown University has many technology resources available for students. All campus buildings and remote sites are interconnected with a network infrastructure that allows for authorized access from classrooms, laboratories, offices, residence halls, and remote locations. Wireless networking also extends accessibility in most residential and study areas throughout the university.

There are general classroom laboratories equipped with computers and instructional technology for hands-on instruction, and these are available for general computer use when class is not in session. The Library has general purpose, collaborative computing resources available days and evenings throughout the week. Black and white and color laser printing is available for a small fee.

There is a Media Lab located in the Learning Resource Center (LRC) for special printing and other media service needs. Digital cameras, projectors, and other audio/visual technology may be checked out for academic projects. Supplies for lettering, posters, banners, and other needs are available for sale. Large format color printing is also available for a fee.

Each residence hall provides access to a 24-hour computer lab for student use. Additionally, there are other specialized computer labs housed in specific academic departments. These include Biology, Chemistry, Construction Management, Engineering, Language, Music, Physics, Visual Arts, and the Writing Center.

Students who bring their own computer to campus may connect to the campus network using their provided network account. Once connected, students may access the Internet, email, class-related resources, references, and other university services.

The Help Desk is located within the Library in the Learning Resource Center and is available for assistance with any questions or issues related to technology use on campus.

OFFICE OF ACADEMIC ASSISTANCE

Students may contact the Academic Assistance Coordinator for assistance in further developing their academic skills. This includes such areas as study skills, note-taking skills, time management, test-taking skills, and other skills that help students succeed academically. Study skills videos that help improve reading, writing, and math are available. The class-tutoring program is funded by and coordinated through this office. The coordinator will help a student engage an individual tutor, if one is available, but payment is the responsibility of the student.

The Office of Academic Assistance administers the [CLEP](#) and proctors tests for correspondence courses. For general information, fees, or to schedule an appointment, call (479) 524-7471.

Student Support Services

Student Support Services (SSS) is a Federal grant-funded TRIO program designed to promote retention and graduation for traditional undergraduate students through intensive academic support. Students who have disabilities, who are first-generation college students, or who meet federal income guidelines are qualified for participation in SSS. Services include instruction in a variety of

study skills, group and individual tutoring, academic counseling, cultural events, academic workshops, and referrals to other campus services. Scholarship funds are also available to qualified students. In order to qualify for a scholarship, a student must be an active participant in SSS, have less than 60 credit hours accumulated at the end of fall semester of the year applying, be receiving a Pell Grant for the current school year, and meet program-set GPA requirements.

Services for Students with Disabilities

It is the goal of John Brown University that all enrolled students be given equal opportunity to succeed in their quest for a higher education that is based upon our "Christ Over All" philosophy and that integrates the educational principles of "Head, Heart, and Hand." In accordance with the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the ADA, John Brown University is committed to providing reasonable accommodations to students who are disabled. The Director of Student Support Services works with students and instructors to arrange appropriate assistance in learning and physical access. Students having documented disabilities are encouraged to contact the director at (479) 524-7400, email kireland@jbu.edu, or to stop by the Office of Disability Services located in the Learning Resource Center (LRC), Room 148.

STUDENT DEVELOPMENT OFFICE

Resources for Service

At the heart of JBU's commitment to servanthood are the many opportunities offered on campus for student participation. Among the most notable are the Student Government Association (SGA) and Student Ministries. Those involved in SGA serve as the student voice to the faculty and administration. Student Ministries creates opportunities for outreach and for inward spiritual growth. The CAUSE staff supports, trains, and mobilizes JBU students to use their knowledge and skills for service and ministry on campus, in the community, and around the world. Passion and our men's and women's ministries provide opportunities for students to serve as facilitators for spiritual development on campus through small group Bible studies, mentoring, and retreat programming.

A student also may choose to serve in a residence hall as a Resident Assistant or as a representative to their Residence Hall Association. Other students serve as Career Development Assistants, helping peers investigate occupational choices in the Career Development Center or participate with Student Events and Activities (SEA) planning and facilitating campus events and programs.

Resources for Lifestyle

After students receive valuable academic training and are given opportunities for servanthood, the next goal is developing them into stewards as they seek to develop meaningful lifestyles for themselves. These lifestyles include not only career choices, but also choices regarding the development of healthy bodies through physical exercise and proper diet. The Walton Lifetime Complex (WLHC) offers students the most modern of health and fitness facilities for a complete daily workout. Swimming, jogging, racquetball, weights, aerobics, and team sports are just a few of the activities available in the WLHC to help reduce health risks and improve one's quality of living.

Student Development Services

Growth and development in college involves much more than successfully clearing all the academic hurdles. College is where many of life's great memories are made and significant personal development happens.

The "Community Covenant" serves as catalyst for rapid growth in many areas of life: spiritual, emotional, relational, and physical development. During the college experience, decisions are made which in large part establish the career and service opportunities for a lifetime. There are people and resources at John Brown University that can be of real help at this crucial time.

Office of Christian Formation

The Office of Christian Formation (OCF) exists to lead the JBU community to become more like Christ through discipleship, corporate worship, and outreach. Within OCF are two primary divisions related to JBU students: Chapel and Student Ministries. Please see our web page for a more complete description of these ministries and other opportunities.

Residence Life Office

Headed by the Dean of Students/Director of Residence Life, the Residence Life office is responsible for all concerns related to student housing, on campus-room assignments, resident assistant selection and training, residence hall improvements, and residence hall educational and social programming. Each hall is staffed by a resident director who works to maintain a safe and healthy environment for all resident students.

Activities Office

Headed by the Coordinator of Student Activities, the Activities Office assists in the coordination of weekly campus activities and maintains a master calendar of events. This office works with all of the clubs and organizations on campus for club approval and funding. The Coordinator of Student Orientation is responsible for new student orientation programs.

Student Counseling Center

The college experience often entails emotional as well as intellectual challenges. Developing meaningful relationships, changes in one's family, stress, anxiety, and depression are just a few of the issues facing students. The professional staff in the Student Counseling Center is available to facilitate students' growth while at JBU. Individual and group therapy, couple counseling, and psycho-emotional groups are available to students free of charge. Counseling sessions are confidential, and appointments are scheduled with discretion and respect for needs and desires of students. For assistance, call (479) 524-7251 or visit our web site.

Career Development Center

The staff at the Career Development Center (CDC) is concerned with providing a comprehensive career development program for the students of John Brown University.

Students have the opportunity to develop self-understanding through the resources available at the CDC. Students may participate in individual counseling, personality inventories, and computer-aided guidance programs. The varied resources in the CDC Library can be helpful to students in any stage of career planning by helping them understand personal strengths, make wise decisions about majors, and begin to explore career alternatives.

The center will serve as a link between college and the world of work through providing regular workshops on job search skills and strategies. Employer Visit Days and the Graduate School Fair in the fall bring employers and graduate school representatives to campus to increase awareness and provide information related to future career and graduate education. The CDC also provides information about graduate schools, graduate entrance test materials, job vacancy notices, occupational profiles and descriptions, and potential employers.

HEALTH SERVICES

At the Health Services Office located in the Walker Student Center, a registered nurse is available weekdays for screening acute illnesses and injuries, as well as offering advice for everyday health problems. The nurse works closely with area doctors whose offices are within walking distance of campus. Equipment such as crutches and humidifiers can be checked out for short term use.

Educational programs are offered to various JBU student groups. The programs include but are not limited to: CPR/First Aid, weight management, stress management, college wellness, etc.

In order to offer complete care, it is important that the Health Services Office have on file all student medical records pertaining to pre-existing conditions such as diabetes, epilepsy, and malaria. Also, regular updates of family telephone numbers on the JBU web site ensure immediate communication in case of emergency.

Arkansas law of 2009 requires documentation of two doses of Measles/Mumps/Rubella (MMR) vaccination for all incoming freshmen and foreign-born students. JBU requires transferring students living in campus housing to have two MMRs as well. All other students are required to have documentation of one dose of MMR.

To receive an application for any exemption, contact the Arkansas Department of Health at (501) 661-2169. You can receive the MMR vaccine on campus.

Arkansas Law regarding Act 96 of 1913 requires all incoming students who were born or have lived for longer than six months in countries where Tuberculosis is endemic to show documentation of a TB skin test administered in the U.S. within six months of classes beginning.

INTERNATIONAL PROGRAMS DEPARTMENT

The International Programs Department (IPD) serves the needs of international students including Walton scholars, MK's and third culture students. The office also offers assistance with international student orientation, immigration regulations, and international education opportunities. IPD sponsors

social and cultural activities to promote Intercultural awareness and understanding among the entire JBU community.

Mission Statement.

The International Programs Department of John Brown University supports students, faculty, and staff who will benefit from and contribute to the intercultural environment of JBU.

United States Citizenship and Immigration Services

IPD assists students, faculty, and staff in obtaining and maintaining the proper immigration status. Workshops are conducted on immigration, employment, and U.S. tax issues.

Walton International Scholarship Programs

The Walton International Scholarship Program (WISP) awards 60 annual scholarships to students from Central America and Mexico. IPD attentively seeks to ensure growth and long-term success for its WISP scholars.

International Education

IPD administers, in conjunction with the academic college or division, our Semester in Ireland Studies Program and a variety of JBU international summer studies programs. IPD also links students with international and domestic studies opportunities offered through the Council of Christian Colleges & Universities. Short-term international mission teams are coordinated by the Office of Christian Formation in partnership with the IPD.

Friendship Family Program

This program connects international students with a host family who will help in the adjustment process and contributes to students' success by providing care and support.

EDUCATIONAL PROGRAMS

ACADEMIC COLLEGES AND DIVISIONS

Division of Biblical Studies:

Biblical and Theological Studies, Christian Ministry and Formation, Intercultural Studies, Outdoor Leadership Ministries, and Philosophy.

College of Business:

Accounting, Business Administration, International Business, Management, and Marketing.

Division of Communication and Fine Arts:

Applied Music, Art and Illustration, Communication, Digital Cinema, General Music, Graphic Design, Music Education K-12 Certification, Photography, and Worship Arts.

College of Education and Human Services:

Education Studies, Elementary Education (K-6), Family and Human Services, Kinesiology, Nursing, Psychology, and Secondary Education Programs (7-12) in English, Mathematics, and Social Studies.

Division of Engineering and Construction Management:

Construction Management and Engineering.

Division of Humanities and Social Sciences:

English, History, Political Science, and Spanish.

Division of Interdisciplinary Studies:

General Education, Interdisciplinary Studies, and Military Science.

Division of Natural Science:

Biochemistry, Biology, Chemistry, and Mathematics.

MAJORS AND MINORS

Bachelor's Degree Programs

Accounting	B.S.
Art and Illustration	B.S.
Biblical and Theological Studies	B.A.
Biochemistry	B.S.
Biology	B.S.
Business Administration	B.S.
Chemistry	B.S.
Christian Ministry and Formation	B.S.
Communication	B.S.
Construction Management	B.S.
Digital Cinema	B.S.
Education Studies	B.S.
Elementary Education	B.S.E.
Engineering	B.S.Eng.
English	B.A.
English Education	B.S.E.
Family and Human Services	B.S.
Graphic Design	B.S.
History	B.A.
Intercultural Studies	B.A., B.S.
Interdisciplinary Studies	B.A., B.S.
International Business	B.S.
Kinesiology	B.S.
Management	B.S.
Marketing	B.S.
Mathematics	B.S.
Mathematics Education	B.S.E.
Music-Applied	B.A.
Music-General	B.A., B.S.
Music Education	B.Mus.Ed.
Nursing	B.S.N.
Outdoor Leadership Ministries	B.S.
Philosophy	B.A.
Photography	B.S.
Political Science	B.A., B.S.
Psychology	B.S.
Social Studies Education	B.S.E.
Spanish	B.A.
Worship Arts	B.S.

Associate's Degree Programs

Construction Management	A.S.
Electromechanical Technology	A.S.
General Education	A.A.
Interdisciplinary Studies	A.A.

Pre-Professional Programs

Pre-Medical or Pre-Dental
Pre-Law

Minors

Accounting
Applied Programming in Business
Art and Illustration
Biblical and Theological Studies
Biology
Business Administration
Chemistry
Christian Ministry and Formation
Church Leadership
Communication and Forensics
Construction Management
Digital Cinema
Digital Journalism & Civic Engagement
Economics
Education
English
Entrepreneurship and Innovation
Family and Human Services
French
General Science
Graphic Design
History
Intercultural Studies
International Business
International Relations
Kinesiology
Leadership Studies
Linguistics
Management
Marketing
Mathematics
Military Science
Museum Studies

Music
New Testament Greek
Outdoor Leadership Ministries
Photography
Physics
Political Science
Pre-Law
Professional Accounting Development
Public Relations
Psychology
Radio and Public Media
Religion and Philosophy
Social Justice
Social Studies
Spanish
Sports Media
Teaching English to Speakers of Other Languages (TESOL)
Theatre
Worship Arts

UNIVERSITY HONORS SCHOLARS PROGRAM

Mission Statement

The mission of the John Brown University Honors Scholars Program is to attract and retain academically advanced students, to stimulate and challenge those students as Christian scholars and effective members of God's Kingdom, and to enrich the academic environment of the broader university community.

Description of the Program

The Honors Scholars Program (HSP) consists of enriched Core Curriculum courses developed especially for highly motivated students. Emphasizing the use of primary texts, instructors challenge students through individual research, critical reflection, incisive discussion, and interactive projects.

Honors Scholars are strongly encouraged to model Christian principles and good stewardship of their academic gifts through serving in leadership positions on campus and participating in service activities both on and off campus. The Honors Executive Council promotes scholarly presentations and service by the student body as a whole and serves as a peer support group for honors students. Honors Scholars often participate in regional, national, and international honors conferences, workshops, and semesters abroad. The Honors/Leaders Scholars Institute Center, available to Honors Scholars, provides an attractive location for studying, cooking, and tutoring.

Honors Scholars enter the Program at the lower division, which requires a minimum of nine hours of freshman/sophomore level honors courses. Students wishing to continue in the program must seek admission to the upper-division, where twelve hours of upper-division honors courses are to be completed. Eligibility for consideration to advance to the upper division is contingent upon prior completion of at least nine lower-division honors hours, three additional hours in progress, and an overall GPA of 3.5. Only after approval to move to the upper division may the scholar begin work on the upper-division component. Students choose to graduate at one of two levels: Presidential Honors (complete 21 honors hours along with an Honors Capstone Project) or University Honors (complete 21 honors hours). All courses are designated "Honors" on the transcript.

Transfer Policy

Students who transfer to JBU their sophomore year or the third year before graduation are required to take 15 hours of honors credits to graduate with honors.

Students who transfer to JBU their junior year or second year before graduation are required to take 12 hours of honors credits to graduate with honors.

Eligibility

High school seniors are selected from a large and very well-qualified pool of applicants. Transfer students and currently-enrolled JBU students who have enough courses remaining to be taken for the Honors degree may also apply.

Eligibility for admission is based on SAT/ACT scores and submission of the Honor's application. Inquiries concerning the program should be addressed to Dr. Trisha Posey, Director of the Honors Scholars Program, John Brown University, 2000 West University Street, Siloam Springs, AR 72761 or e-mail tposey@jbu.edu.

Courses

The following list indicates the courses currently available to Honors Scholars, the Core Curriculum courses for which they may substitute, and the semesters they are offered. The program is subject to periodic review and change by the Honors Committee in order to keep the program relevant, innovative, and challenging.

Graduation Requirement

The HSP requires a 3.5 GPA (or 3.75 Honors GPA) for students wishing to graduate from the JBU Honors Scholars Program.

Honors Courses in relation to the Core Curriculum

Students who are not admitted to the Honors Scholars Program are not allowed to enroll in honors courses.

Number	Honors Course	Core Counterpart	Term Offered
EGL 1083	Honors: English I ¹	EGL 1013	Fall
EGL 1093	Honors: English II	EGL 1023	Spring
BBL 1083	Honors: Old Testament Survey	BBL 1013	Fall
BBL 1093	Honors: New Testament Survey	BBL 1023	Spring
BIO 1093	Honors: Biological Science	BIO 1003	Spring
HST 1083	Honors: Western Civilization I	HST 1013	Fall
HST 1093	Honors: Western Civilization II	HST 1023	Spring
PSY 1093	Honors: Introductory Psychology	Social Science	Fall
ECN 2093	Honors: Basic Economics	Social Science	Spring, odd
POL 2093	Honors: American Government	POL 2013	Fall, even
COR 2591	Honors: Colloquium ²		Upon Request
POL/RPH 3093	Honors Political Philosophy	POL 3003 or RPH 3013	Spring, even
BBL 3083	Honors: Integrated Theology I ³	BBL 4002	Fall, odd
BBL 4083	Honors: Integrated Theology II ³	BBL 3003	Spring, even
COR 3093	Honors: Integrated Humanities I ⁴	The Arts, Philosophy or EGL 4003	Fall, even
COR 4093	Honors: Integrated Humanities II ⁴	The Arts, Philosophy or EGL 4003	Spring, odd
COR 3111	Honors: Intro to the Honors Capstone Project		Fall
COR 3591	Honors: Colloquium ²		Upon Request

COR 3691 Honors: Practicum

Upon Request

___ 4193 ⁵Honors Capstone Project in _____

___ 4693 Honors Class Contract in _____

___ 4913 ⁶Honors Co-Teaching: Readings in _____

___ 4923 ⁶Honors Co-Teaching: Classroom Practicum in _____

¹ If an incoming Honors Scholar wishes to establish credit for English I by CLEP, the exam must be taken before the first day of Honors: English I. Credit for English II is not available via CLEP.

² May be repeated for up to three hours of credit.

³ Integrated Theology is a six-hour sequence of two interdisciplinary courses which together substitute for two requirements in the Core Curriculum (Evangelical Theology and Capstone Seminar in Christian Life). If a student completes only the first semester, the course will count for Capstone Seminar in Christian Life. Honors BBL 3083 is a prerequisite for BBL 4083.

⁴ Integrated Humanities is a six-hour sequence of two interdisciplinary courses which together substitute for three requirements in the Core Curriculum (Masterpieces of Literature, The Arts, and Philosophy). If a student completes only one of the semesters, the course will count for one of the three.

⁵ Though not required to do so, Honors Scholars are urged to complete an Honors Capstone Project in their major field of study during the junior or senior year. Projects are subject to recommendation by faculty in the appropriate department and approval by the Honors Committee. Guidelines for the Capstone Project may be obtained from the Honors Scholars Office. Supervising faculty receive the usual stipend for independent study, paid by the Honors Scholars Program Office.

⁶ A student may earn up to six upper-division honors hours by completing these non-traditional options: 4913 and 4923 which will be treated as independent studies. Students will be charged the independent study fee.

INTERNATIONAL EDUCATION PROGRAMS

Study Abroad and International Summer Programs

Students interested in the following programs should inquire at the International Programs Office in the Walker Student Center. There may be other summer International educational opportunities available. Please check the International Summer Programs website for further information.

JBU Semester in Ireland

John Brown University operates a semester-long program in Belfast, Northern Ireland every fall semester. Students live at JBU's own Lakeside Manor in Belfast, take 15 hours of Core Curriculum course work with Irish professors, and travel throughout Ireland as they connect classroom and experiential learning.

JBU Summer Irish Studies

JBU operates a six-week summer program at Lakeside Manor in Belfast, Northern Ireland, whereby students can earn nine hours of Core Curriculum credit. Ireland itself-the location, the people, and the culture-is the focus of the program. Lakeside Manor is located in Belfast, with the curriculum making use of field trips to numerous locations in Ireland.

Other International Off-Campus Programs

Creation Care Study Program (CCSP)

The mission of CCSP is “*to educate students to be a part of, and agents for, God’s shalom, particularly through understanding and caring for creation.*”

The CCSP is an official CCCU study abroad program with locations in Belize and New Zealand. JBU students attending the CCSP program would receive 8 hours of upper division biology credit for the course in *Sustainable Community Development* (4 hours) and the *Tropical Ecosystem/Ecosystems of the South Pacific* (4 hours). The *Faith and Science* (GSC 4133) JBU course requirement would be fulfilled by the *God and Nature* (4 hours) course offering at CCSP. Students may also choose to enroll in the *Environmental Literature* course (3 hours) and/or the internship (2-3 hours) as elective hours. The CCSP program would also fulfill the JBU global studies credit (0-3 hours).

LCC International University

LCC International University (formerly Lithuania Christian College) is a nationally and internationally recognized liberal arts institution in the city of Klaipėda, Lithuania. Established in 1991 by a joint venture of Lithuanian, Canadian, and American foundations, LCC has distinguished itself in the region by offering a unique, future-oriented style of education and an interactive academic environment within the context of a Christian academic community.

Study abroad students select 15 to 17 credit hours from courses in Business Administration, English Language and Literature, Psychology and Theology. Students share a room with three European roommates and receive a monthly stipend for food and entertainment. The LCC study abroad program also includes an orientation week, travel throughout Lithuania, weekend trip to Riga and Tallinn, and a one-week semester break trip to St. Petersburg and Moscow. For more information contact the JBU International Programs Office.

Living and Learning in Quito

Living and Learning in Quito, Ecuador, is a 13-week semester study abroad program available to students who desire to continue their college education in an international setting. Living and Learning in Quito functions under the supervision of Youth World International. The program combines classroom learning and practical internships in a unique and challenging cross-cultural setting. Students will be enrolled in a Spanish language institute during their time in Quito. Interested students should consult the International Programs Office.

Semester in Spain (Seville)

The Semester in Seville, Spain, is an exciting way for students to be immersed in Spanish language and culture. All levels of Spanish fluency, from beginning to advanced, will benefit from the time spent with the host family and surrounding Sevillianos. Travel opportunities in Spain include Barcelona, Madrid, Toledo, and Granada. Also within short flight distance are many historical cities in Europe and northern Africa. Students can earn a possible 16 semester hours of credit. The program is required for majors in Spanish.

Affiliated CCCU Study Abroad Programs

The Council for Christian Colleges & Universities, an association of 118 campuses in the U.S. and Canada, offers the following programs to students of its member institutions. The programs offer a unique opportunity for students to make the world their classroom, going beyond the confines of the traditional classroom. For further information, consult the CCCU web site at www.bestsemester.com.

Travel Disclaimer: All travel plans are subject to change if the situation for any of the destinations is thought to compromise the students' safety.

American Studies Program

Founded in 1976, the American Studies Program (ASP) has served hundreds of students from member institutions as a "Washington, D.C. campus." ASP uses Washington as a stimulating educational laboratory where collegians gain hands-on experience with an internship in their chosen field. Internships are tailored to fit the students' talents and aspirations and are available in a wide range of fields. They also explore pressing national and international issues in public policy seminars which are issue oriented and interdisciplinary. The seminars are led by ASP faculty and Washington professionals. ASP bridges classroom and marketplace, combining biblical reflection, policy analysis, and real-world experience. Students are exposed to on-the-job learning that helps them build for their futures and gain perspective on the calling of God for their lives. They are challenged in a rigorous course of study to discover for themselves the meaning of Christ's lordship in putting their beliefs into practice. The aim of the program is to help council schools

prepare their students to live faithfully in contemporary society as followers of Christ. Students earn 16 semester hours of credit.

Australia Studies Centre

The Australia Studies Centre (ASC) immerses students in a dynamic Christian community through which they will come into contact with the cultural diversity of Sydney and the surrounding region. Students will interact with others who share a commitment to personal development through study and fellowship. ASC provides a variety of course offerings including theology, theatre, dance, and ethnomusicology. The courses are taught by some of Australia's leading teachers, musicians, and theologians. Travel opportunities include trips into the Blue Mountains, Jenolan Caves, and Canberra. Students will experience such activities as a bush walk, touring the Australian National Museum, and the Parliament House. At the end of the semester, ASC participants will come away well equipped to undertake ministry opportunities in all walks of life and across cultural boundaries. Students earn 15-18 semester hours of credit.

China Studies Program

The China Studies Program enables students to engage this large and intriguing country from the inside. While living in, and experiencing Chinese civilization firsthand, students participate in seminar courses on the historical, cultural, religious, geographical and economic realities of this strategic and populous nation. In addition to the study of standard Chinese, students are given opportunities such as assisting Chinese students learning English or working in an orphanage, allowing for one-on-one interaction. The program introduces students to the diversity of China, including Hong Kong, Beijing, Shanghai, Xi'an, and Xiamen. This interdisciplinary, cross-cultural program enables students to deal with this increasingly important part of the world in an informed, Christ-centered way. Students earn 15-17 semester hours of credit.

Contemporary Music Center

The Contemporary Music Center (CMC) provides students the opportunity to live and work in community while seeking to understand how God will have them integrate music, faith, and business. Both interdisciplinary and multidisciplinary in nature, the CMC offers two tracks: the Artist Track and the Executive Track. The Artist Track is tailored to students considering careers as vocalists, musicians, songwriters, recording artists, performers, producers, and recording engineers. The Executive Track is designed for business, arts management, marketing, communications, and other majors interested in possible careers as artist managers, agents, record company executives, music publishers, concert promoters, and entertainment industry entrepreneurs. Both Artist and Executive track students receive instruction, experience, and a uniquely Christian perspective on creativity and the marketplace, while working together to create and market a recording of original music. Both tracks include course work, labs, directed study, and a practicum. Students earn 16 semester hours of credit.

India Studies Program

The India Studies program (ISP) offers a unique opportunity to encounter one of today's most fascinating and diverse cultures. This diversity, as well as the call to be an obedient witness for Christ throughout the world, provides a rich and engaging setting to equip students to be servant-

leaders in a pluralistic world of beliefs, cultures, and needs. The ISP is structured to provide students with both immersion in a local community and broad exposure to a variety of peoples, places, and customs in India, including an extensive two-week travel portion of the program to provide students a close up look at India's diversity. Students will participate in two core courses designed to provide a broad overview of the historical, religious, geographical, and economic landscape of India. Rounding out the 16 hour semester experience, students will also have the opportunity to take courses in their major areas with Indian students and professors. At its heart, the India Studies Program strives to encourage and equip students to effectively relate to India and its people in an informed, constructive, and Christ-centered manner.

Latin American Studies Program

Students of CCCU colleges have the opportunity to live and learn in Latin America through the Latin American Studies Program, based in San Jose, Costa Rica. The program introduces students to a wide range of experiences through the study of the language, literature, culture, politics, history, economics, ecology, and religion of the region. Living with a Costa Rican family, students experience and become a part of the day-to-day lives of typical Latin Americans. Students also take part in a service opportunity and travel for three weeks to nearby Central American nations. Students participate in one of four concentrations: Latin American Studies (offered both fall and spring terms); Advanced Language and Literature (limited to Spanish majors and offered both fall and spring terms); International Business and Management (offered only in fall terms); and Tropical Sciences (offered only during spring terms). Students in all concentrations earn 16 semester credits.

Los Angeles Film Studies Center

The Los Angeles Film Studies Center is designed to train students of council member institutions to serve in various aspects of the film industry with both professional skill and Christian integrity. Students live, learn, and work in the LA area near major studios. The curriculum consists of two required seminars focusing on the role of film in culture and the relationship of faith to work in this very influential industry. In addition, students choose two elective courses from a variety of offerings in film studies. Internships in various segments of the film industry provide students with hands-on experience. The combination of the internship and seminars allow students to explore the film industry within a Christian context and from a liberal arts perspective. Students earn 16-18 semester hours of credit.

Middle East Studies Program

Based in Israel, the Middle East Studies Program (MESP) allows council member students to explore and interact with the complex and strategic world of the modern Middle East. The interdisciplinary seminars give students the opportunity to explore the diverse religious, social, cultural, and political traditions of Middle Eastern people. In addition to seminars, students study the Arabic language and work as volunteers with various organizations. Through travel in Israel, Palestine, Jordan, and Turkey, students are exposed to the diversity and dynamism of the region. MESP encourages and equips students to relate to the Muslim world in an informed, constructive, and Christ-centered manner at a time of tension and change. Students earn 16 semester hours of credit.

Oxford Summer Programme

This program allows students to spend a summer term studying at the Wycliffe Hall in Oxford, England. The program includes multi-disciplinary study of the Renaissance and Reformation through examination of philosophy, art, literature, science, music, politics, and religion of early modern Europe in a choice of lectures, seminars, and field trips. Students earn six to nine semester credits, which are administered directly to member institutions.

Oxford Honours Programme

Honors 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, students participate in a seminar and an integrative course through which they produce a scholarly project or term paper. Field trips provide opportunities for experiential learning in England's rich historical setting. Students earn 17 semester hours of honors credit.

Uganda Studies Program

The Uganda Studies Program (USP) exposes students to the uniqueness of Ugandan culture. During their stay in Uganda, they will be able to view the beauty of nature, experience Christianity in the Ugandan culture, and learn about Ugandan history. Students participate in service projects which include teaching English, tutoring at an orphanage, constructing housing, and visiting with AIDS patients. Courses of study include African Politics, Conversational Luganda, Contemporary African Literature, and Religions of Africa. Travel throughout Uganda will allow the participants to see parks, historical sites, and population centers. USP equips students with an expanded worldview and an appreciation for diversity. Students earn 16 semester hours of credit.

Washington Journalism Center

Washington Journalism Center (WJC) is an advanced, experiential semester on Capitol Hill that will cultivate professional news skills and encourage students to think through the implications of being a Christian working in the news media in a city that is home to the powerful and the powerless. The center blends classroom experience with hands-on work and provides excellent opportunity to learn through lectures and panels with leading journalists who share a strong Christian commitment. Students also participate in seminars taught by communications professors from council member institutions, take part in field trips and complete workshop projects for hometown newspapers. The center develops students as Christian journalists exhibiting both professionalism and legal/ethical integrity. Students earn 16 semester hours of credit.

Academic Policies for Off-Campus Programs

1. For JBU credit to be awarded, the program or experience must be approved in advance by the International Programs Committee.
2. Credit earned in non-JBU led off-campus programs is posted as "CR" on the student's JBU transcript.
3. Students in such programs are designated as enrolled at JBU.

Financial Aid Policy for Off-Campus Programs

This information applies only to aid directly from John Brown University. It does not affect any federal or state aid that a student may have. It also does not apply to the JBU Semester in Ireland Program.

Off-campus study is a valuable part of a student's education. Therefore, JBU allows a certain number of students per year to apply a portion of their institutional financial aid to semester abroad programs. In allocating financial aid funds to semester abroad programs and selecting students to receive such a benefit, the university's policy is driven by two guiding principles:

- Study abroad programs that immerse students in a foreign culture are some of the most valuable, life-changing educational experiences that a student can have.
- Cross-cultural study that occurs in a Christian context and is motivated from a Christian worldview is the most meaningful kind of semester abroad experience.

Therefore, John Brown University seeks to give priority in financial aid support and student selection to cross-cultural programs that share its Christian mission and educational perspective.

Study Abroad Financial Aid

- > Up to 100% of institutional financial aid, depending on available funds: Irish Studies Program and Semester in Spain Program (Seville).
- > Up to 75% of institutional financial aid, depending on available funds: all international CCCU programs.
- > Up to 50% of institutional financial aid, depending on available funds: other Christian-based cross-cultural programs approved by the International Programs Committee.
- > Up to 50% of institutional financial aid, depending on available funds: all domestic CCCU programs and IPC-approved domestic programs (such as the Focus on the Family Institute).

Awarding Study Abroad Financial Aid

1. By February 1 of the preceding semester, any student planning to apply JBU financial aid to a study abroad program for the fall semester must notify the International Programs Office in writing.
2. By October 1 of the fall semester, any student planning to apply JBU financial aid to a study abroad program for the spring semester must notify the International Programs Office in writing. The International Programs Committee will allocate the remaining available financial aid funds to eligible students studying abroad in the spring semester.
3. Award amounts for each individual student will vary based on the overall number of students applying for study abroad, the particular program attended, and the amount of aid that the student is eligible for. In addition, the following factors will affect award amounts: prior participation in

semester abroad programs or intercultural experiences, financial need, year of study at John Brown University, and overall GPA.

Other Stipulations

1. Students receiving scholarships or stipends that require on-campus service (such as resident assistants, Student Government Association officers, student publications editors, CAUSE officers, workstudy employees and athletes) may not apply their institutional scholarships to study abroad programs.
2. Students attending JBU under a tuition exchange program from another college cannot carry that exchange to an off-campus program. Students receiving JBU tuition remission may apply up to 50% of their tuition remission to an off-campus program.
3. Students receiving JBU aid while attending off-campus programs must return to JBU for further study, or must graduate from JBU at the conclusion of the program. If this is not done, the student must repay the amount received from JBU as financial aid for the program.
4. Students may participate in only one semester study abroad opportunity while earning an undergraduate degree. Students may participate in multiple summer study abroad opportunities.
5. All summer study abroad tuition and fees must be paid in full by May 5; fall study abroad tuition and fees must be paid in full by August 5; and spring study abroad and fees must be paid in full by January 5.

U.S. AIR FORCE AND U.S. ARMY ROTC PROGRAMS

John Brown University has partnered with Air Force ROTC, a nationwide program that allows students to pursue commissions (become officers) in the United States Air Force (USAF) while simultaneously attending college. Air Force ROTC classes are held on college campuses throughout the United States and Puerto Rico.

Students can register through normal course registration processes. Air Force ROTC consists of four years of Aerospace Studies classes (Foundations of the USAF, Evolution of USAF and Space Power, Air Force Leadership Studies, and National Security Affairs/Preparation for Active Duty), and a corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies). College students enrolled in the Air Force ROTC program (known as “cadets”) who successfully complete both Air Force ROTC training and college degree requirements will graduate and simultaneously commission as Second Lieutenants in the Active Duty Air Force.

The Air Force ROTC program is currently offered at the University of Arkansas, which has a crosstown agreement with JBU that allows our students to enroll in Air Force ROTC and become full-fledged cadet participants by attending the classes held on the University of Arkansas campus in Fayetteville.

Additional information about Air Force ROTC can be found at <http://www.afrotc.com/> and for specific information about the ThunderHawks of Detachment 030, please review <http://afrotc.uark.edu/>.

U. S. Air Force ROTC

In addition to the first two years of academic study (see above), John Brown University, in cooperation with the University of Arkansas and the U.S. Air Force, offers two years of advanced instruction in Aerospace Studies. Providing three hours of academic credit per semester for Air Force cadets, the advanced instruction prepares students for the responsibilities and privileges of a commissioned officer.

Air Force ROTC (AFROTC) cadets must attend and successfully complete field training, a step usually accomplished between the sophomore and junior years. AFROTC cadets may volunteer to attend various professional development courses during their "non-field-training" summers.

Each student must successfully complete the summer field training to qualify for the advanced AFROTC program. All veterans who have completed basic training and 180 days of service with any component of the U.S. Armed Forces are exempt from the freshman AFROTC course.

Financial assistance is also available in the form of monthly stipends for cadets officially enrolled in the advanced training program, who have successfully completed summer field training. Additionally, Air Force ROTC offers four-, three-, and two-year scholarships to competitively selected students. Scholarship recipients receive a monthly tax-free allowance ranging from \$300 to \$450, payment of tuition expenses, textbook payment, and payment of certain other fees. Additional information and applications for this assistance may be obtained at <http://www.afrotc.com>.

A student who successfully completes the Advanced Course in Air Force ROTC and receives a degree will be awarded a commission and will serve on active duty in the U. S. Air Force.

All textbooks, instructional material, uniforms, and equipment required for ROTC courses are loaned to the student at no cost. U.S. Air Force Aerospace Studies (ARO) course descriptions can be found at <http://www.jbu.edu/catalog>.

U.S. Army ROTC

In addition to the first two years of academic study (see above), John Brown University, in cooperation with the University of Arkansas-Fayetteville and the U.S. Army, offers two years of advanced instruction in Military Science. The advanced instruction prepares students for the responsibilities and privileges of a commissioned officer. This advanced instruction offers four hours of academic credit per semester for Army cadets. Additionally, all students enrolled in the final two years of ROTC receive a monthly tax-free allowance ranging from \$350 to \$400.

Army ROTC cadets attend a 33 day Leadership Development and Assessment Course between their junior and senior school year. Cadets may attend professional development training such as airborne, air assault, British Exchange Program, northern warfare, and mountain warfare. During summer field training, cadets receive room and board.

For students having a minimum of two academic years in school remaining (undergraduate, graduate, or a combination of the two), an alternate two-year program is offered. Students entering the two-year ROTC program attend a 28-day Leaders Training Course (LTC) during the summer. Rising juniors, seniors and graduate students who meet the US Army Cadet Command's Scholar-Athlete-Leader criteria and are unable to attend the LTC may be eligible to participate in an Accelerated Cadet Commissioning Training (ACCT) program conducted on the University of Arkansas-Fayetteville campus. Students with high school-level military schooling (ROTC, NDCC, or Military Academy) may qualify for the advanced ROTC program without completing the freshman or sophomore courses. All veterans who have completed basic training and 180 days of service with any component of the U.S. Armed Forces can receive full credit for the freshman and sophomore courses and may enter ROTC at the advanced level, once junior academic standing has been achieved.

Financial assistance is also available to qualified students enrolled in ROTC courses. The Army offers 2-, 2.5-, 3-, 3.5-, and 4-year scholarships. Freshman or sophomore students who are not enrolled in Army ROTC may qualify for on-campus 2- or 3-year scholarships. Juniors, seniors, and graduate students who have at least two full years of college remaining may also qualify for on campus 2- or 3-year scholarships. Scholarships can be used to pay for graduate schooling. Scholarship students receive a monthly tax-free allowance ranging from \$250 to \$400, payment of all tuition expenses, textbook payment, and payment of certain other fees. Engineering and Nursing students are highly encouraged to apply.

Army ROTC scholarship and advanced course students must agree to successfully complete at least one semester of American Military History prior to commissioning.

A unique financial assistance program is available to all Army ROTC sophomore (MSII), junior (MSIII) and senior (MSIV) students through the Simultaneous Membership Program (SMP). This program allows these students to be enrolled in Army ROTC while simultaneously serving with a

Reserve or National Guard unit. Financial benefits of this program presently provide approximately \$600-\$1,100 per month to SMP students. In addition, ARMY ROTC SMP students will also receive Federal Tuition Assistance (FTA) which will pay 100% of tuition up to \$4,500.00 per year. Eligible Army National Guard students may also receive additional financial assistance through the Guard Tuition Assistance Program (GTAP).

All students who successfully complete the Advanced Course in either ROTC program and receive a degree may be accepted for a Regular or Reserve Commission in the United States Air Force or in one of the 16 branches of the Army.

All textbooks, instructional material, and equipment required for ROTC courses are furnished at no cost to the student. Exception: Army ROTC MSIII (junior) and MSIV (senior) cadets are required to purchase their textbooks. U.S. Army Military Science (MSC) course descriptions can be found at <http://www.jbu.edu/catalog>.

ROTC Contact Information

John Brown University students interested in ROTC should contact the Academic Affairs Office for details. Additional information about Air Force ROTC can be found at <http://www.afrotc.com/>.

ADMISSION

Admission Procedures and Guidelines

Students wishing to apply for admission should proceed as follows:

1. Register to take the ACT or SAT examination during the junior or senior year of high school and have scores sent to John Brown University.
2. Provide John Brown University with a copy of the official high school transcript.

The following high school courses are recommended as college preparation:

English-4 units

Natural Science-3 units (two of three should be biology, chemistry, or physics)

Mathematics-3 units (Algebra I and higher)

Social Studies-3 units

American History-1 unit

Foreign Language-2 units

Total Credits-16 units

The following are recommended for admission to programs in science and engineering:

English-4 units

Natural Science-3 units

Mathematics-4 units

Social Studies-3 units

Total Credits-14 units

3. Submit all of the following:
 - a. Completed application for admission
 - b. Signed statement on the application form affirming that you have read, understand, and agree to abide by the university's lifestyle expectations as stated in the Student Handbook
 - c. ACT or SAT test scores (applicants 21 years of age or older and international applicants may be admitted without ACT or SAT scores)
 - d. Completed high school transcript or equivalent
 - e. References from individuals who can address your spiritual and academic character

- f. \$25 (non-refundable) processing fee
 - g. Health and immunization records, including date of Measles/Rubella vaccination
4. Official transcripts of any college or post high-school credit, mailed directly to JBU from the awarding institution(s)
5. Certain departments have additional requirements for official admission:
- a. Prospective music majors must audition
 - b. Teacher Education applicants must have an ACT score of 20 or higher, or a 1020 or higher on the SAT (for SAT testing completed prior to March 2016, the minimum score requirement is 950)
 - c. The Engineering Division recommends a Math ACT score of 25 or higher, or an SAT score of 620 or higher for success in the Engineering majors
 - d. The Nursing Department requires specific admission criteria when applying for admission into the Nursing Program. Refer to the requirements outlined under the Department of Nursing

Application Deadline

The Admissions Office reviews applications using a series of deadlines for guaranteed on-campus housing. The number of residence hall spaces available for new students is limited, and JBU admits the number of qualified candidates from the applicant pool for which available spaces exist in the residence halls.

Criteria for Admission

First-Time Freshmen

To be admitted as a first-time freshman, the applicant must present a transcript showing graduation from high school or GED, and the score and percentile achieved on the ACT or SAT. Home educated students will be admitted using the same criteria. However, home educated students seeking federal financial aid will be required to submit an officially recognized high school diploma or equivalent.

To be admitted on regular freshman status, an applicant must have scored at or above 20 on the ACT or 1020 on the SAT (for SAT testing completed prior to March 2016, the minimum score requirement is 950) and have a high school cumulative grade-point average at or above 2.5 (excluding remedial course work). In addition to the academic criteria outlined above, the admissions counselor may request two references: one from a high school counselor or teacher, the other from a church leader (pastor, youth pastor, Sunday school teacher, mentor).

The Admissions Office is responsible for determining the overall "fit" of an applicant with the university. Academic, social, and spiritual factors are considered. It is helpful for the applicant to

provide as much relevant information as possible in determining whether there is a good match between the applicant and the university.

Mandatory Placement in English

Students for whom English is a second language will take the COMPASS/ESL test for placement in the appropriate English class. Students placed in ESL classes will continue in the English track each semester without a break. (English I will immediately follow ESL III, and English II will immediately follow English I.) Freshmen who score below 20 on the English section of the ACT or below 500 on the SAT verbal section will be placed in EGL 1003 Basic Writing.

Mandatory Placement in Mathematics

Freshmen who score below 19 on the math section of ACT or below 480 on the SAT math section will be placed in MTH 0153 Intermediate Algebra.

ASPIRE Admission

An applicant who is unable to qualify for admission under regular criteria may be admitted by action of the Admissions Committee. First-time freshmen and transfer students having test scores or GPAs below the required minimums may request consideration by the committee. Such applicants may be asked to write an essay describing their reasons for seeking a Christian college educational experience, their career goals, and their plans for succeeding at John Brown University. If possible, the applicant will be interviewed by an admissions counselor. The interview may be conducted in person or by telephone.

Students whom the committee permits to enroll will be required to participate in ASPIRE-the Academic Success Program for Inspiring and Reaching Excellence. ASPIRE supports students academically so that they have opportunity to be successful in their first year at John Brown University. As part of the Head, Heart, and Hand mission of the university, we seek to come alongside these students to offer guidance, encouragement, and accountability.

ASPIRE stipulations include the following:

1. Academic load limited to 13-14 credit hours the first semester and 16 credit hours the second semester.
2. Required enrollment and participation in Strategies for College Success.
3. Bi-weekly grade checks.
4. Monthly individual meetings with the director of Student Support Services.
5. Specialized advising and tutoring.

ASPIRE charges a one-time fee of \$500. Students and their parents or guardians must sign a commitment to participate as part of the admission agreement. Only a limited number of students are

accepted into the program each year. Once this limit has been reached, candidates are placed on a waiting list.

Transfer Students

To be admitted as a transfer student, the applicant must have been enrolled in college as a full-time student for at least one semester following high school graduation. Each college must send an official transcript directly to John Brown University. A high school transcript and standardized test scores may also be required. Transcripts for all transfer students are subject to academic review prior to acceptance. An overall college grade point average of at least 2.5 is required, and a grade of 'C' or better is required in each course received for credit. Any transfer student with less than a 2.5 cumulative GPA, regardless of ACT/SAT score, will be brought to the Admissions Committee for review. Any transfer student with fewer than 24 transferable hours is subject to standard high school admissions requirements (20 ACT or 1020 SAT, effective March 2016) plus 2.5 high school GPA.

The following students will be brought to the admissions director for internal review and subsequent committee review when deemed necessary: those transferring from a junior or community college with no or a sub-standard ACT or SAT score (minimum 20 ACT or 1020 SAT, effective March 2016) regardless of GPA, or those transferring from a fully-accredited four-year institution with less than a 3.0 cumulative GPA and with no or a sub-standard ACT or SAT score.

Entering transfer students having more than 24 semester hours transfer credit receive scholarship consideration on the basis of college credit.

Non-Degree Students

Students wishing to enroll at the university without pursuing a degree should indicate this on the application form. Applicants may be asked to submit additional academic information, such as transcripts and test scores (ACT or SAT). The application process is streamlined and there is no processing fee, but non-degree students are required to pay for all instruction and other services at the regular rate. Such students may enroll for no more than 11 hours per semester, and credit earned may count toward a degree only after students reapply and are accepted for admission under regular student status. The reapplication process must include all relevant transcripts and applicable test scores.

INTERNATIONAL ADMISSION

John Brown University admits international students who meet the general admission criteria and have demonstrated proficiency in English. Applicants from non-English speaking countries must take the Test of English as a Foreign Language (TOEFL) as administered by the Educational Testing Service at the nearest examination center or the IELTS, ACT, SAT, A levels or O levels. The minimum TOEFL score for admission is 80 on the web-based exam. The minimum IELTS score for admission is a 6.5. The language proficiency for Walton International Scholarship recipients is evaluated for admissions purposes by an alternative means as determined by the International Programs Office in consultation with the Department of Language Studies. In addition, the COMPASS examination will be given after students arrive on campus to place students in the appropriate level of English instruction.

International students must also provide the following:

1. Completed international application form, including the essay.
2. A \$125 U.S. non-refundable application fee.
3. Letter of recommendation: an academic reference from a teacher or guidance counselor at the last school attended (secondary or university).
4. Official transcripts of academic records at secondary school or university. This must be sent from the high school or university directly to the Registrar's Office at JBU.
5. For regular freshman status, an applicant must present an examination report of an internationally recognized, standardized test: ACT, SAT, TOEFL, IELTS, O Levels, A Levels, or the Caribbean Exams (CXC).
6. Health form: Immunization record including dates of two doses of Measles/Mumps/Rubella vaccination, and current Tuberculosis (TB) screening performed in the United States if student is born or has lived in an area where TB is endemic for more than six months.
7. Bank statement or an Affidavit of Support showing ability to pay for one year's fees.

When all admissions requirements have been met and the initial deposit paid, the International Programs Office will issue an Immigration Form I-20. This allows the student to apply for the F-1 student visa at an American Embassy.

Mr. William A. Stevenson, III, is the director of the International Programs Department.

CONCURRENT HIGH SCHOOL ADMISSION

Each semester, JBU offers high school juniors and seniors an opportunity to take college courses at a reduced cost. The number of courses available and the number of students who may participate is limited. Students selected may enroll for one course per term. Students who later enroll as full-time freshman at John Brown University will receive a tuition credit equal to the monies they had paid for concurrent enrollments, up to \$1,260.

The Concurrent High School Enrollment application form for students attending classes on the campus of JBU is on-line or you may stop by the Admissions Office. Otherwise, for students attending JBU classes off campus, the application form is available through the college counselor at the high school you attend. Applicants must have a 3.0 cumulative high school grade point average and must provide high school transcripts and a completed reference form from their high school counselor. The application deadline for the fall semester is August 10, and January 1 for the spring.

NOTICE OF NON-DISCRIMINATORY POLICY

John Brown University admits persons to its programs and activities without regard to race, color, national or ethnic origin, or gender. The university does not discriminate on the basis of race, color, national or ethnic origin, physical or mental disability, or gender in the administration of education policies, admission policies, scholarship and loan programs, athletics, and other school-sponsored programs.

FINANCIAL PLANNING

COST OF ATTENDANCE

Charges for 2016-2017

<u>Traditional Undergraduate</u>	<u>Per Semester</u>	<u>Annual Total</u>
Full-time Tuition (12-18 credit hours)	\$12,109	\$24,218
General Fee	553	1,106
Room and Board (Residence Halls)	<u>4,420</u>	<u>8,840</u>
Total	\$17,082	\$34,164

Other housing options available on a limited basis to upper-division students.

Part-time Tuition, per credit hour	\$807
Part-time General Fee (9-11 credit hours)	\$277
Tuition per credit hour over 18 hours	\$404
Independent Study, per credit hour (in addition to regular tuition)	\$121
Summer 2017 Tuition, per credit hour	\$404
Summer 2017 Room and Board, 4-week term	\$1,299

Application Fee

Applications for admission to the university should be accompanied by a \$25 non-refundable application fee.

Reduced Tuition

Certain students receive tuition discounts when enrolling for traditional full-semester undergraduate classes, as follows:

- > Students 55 or over - one-half of regular rate with no course or cumulative hour restrictions.
- > Students 30 to 54 - one-half of regular rate, enrollment in two courses and six credit hours maximum per semester.
- > Concurrent High School Enrollment - area high school students may enroll for one course per semester at reduced cost. Participation in the program is limited.

Enrollment Deposit

An enrollment deposit of \$300 is required of all new applicants who have tentative or final acceptance status. This deposit is fully refundable **before** May 1, prior to fall semester enrollment and December 15, prior to spring semester enrollment. For students applying or attaining an accepted admission status after the refund date, the enrollment deposit will not be refundable. The deposit is designed to secure the student's enrollment at John Brown University and will be applied as a credit directly to the student's account.

Off-Campus Housing

Students who have lived in JBU housing for at least six semesters are eligible to apply to the Student Development Office for approval to live off-campus. Married students, students living with parents, and students living with full-time faculty or staff are permitted to enter as day students. Students who are 22 years of age or older are permitted to live off campus.

Room Damage Deposit

Each student who wishes to live in university housing is required to submit \$100 before a room assignment can be made. The fee is fully refundable until May 1 for the fall semester and December 15 for spring semester.

1. This deposit may be submitted after the student receives notification of acceptance to the university. A room assignment is made after the deposit is received.
2. The deposit will be held as a deposit on the student account until the student graduates or no longer resides in university housing.
3. Room damage charges may be assessed as they occur or when the student officially checks out of university housing. Charges are posted by Residence Life, on the student's account, to be paid in 10 days. The balance of the deposit will be credited to the student's account following the end of the last semester in which the student lives in university housing. If charges exceed the amount of deposit, official transcripts or diploma may be withheld until the account is cleared. Should a student fail to follow the official check-out procedures, the room deposit will be forfeited.

Meal Plans

All residence hall students are required to participate in the JBU meal plan. They may choose either a 12- 16- or a 21-meal-per-week option. The cost is the same; the difference is that the 12- and 16-meal options give the student a larger spending account in the California Café.

Non-resident students are offered two commuter options:

1. \$555 which provides 50 meals in the cafeteria and \$175 in bonus points for use in the California Café or
2. \$300 which provides 25 meals in the cafeteria and \$105 for use in the California Café.

A detailed compilation of costs can be viewed on our web site.

ADDITIONAL FEES

For the 2016-2017 school year students may incur additional fees, depending on major and residential status. A detailed compilation of additional fees can be viewed on our web site.

Graduation Application Fee \$35

Each graduating student is required to pay this fee, without regard to commencement participation. The fee will appear on the student's account at the time the application for graduation has been submitted. In addition, students who participate in commencement will be required to purchase regalia through the bookstore.

Official Transcripts \$5

The first official transcript is issued without charge. The fee is charged for all subsequently issued official transcripts.

Auto Registration \$25

Motorcycle Registration \$15

Any automobile that will be parked on campus must have a JBU parking sticker. This sticker is valid for one academic year, fall semester through summer terms.

Orientation: U.S. Residents \$125

Orientation: Internationals \$225

All incoming full-time students are required to participate in orientation activities at the beginning of their first term. The fee is charged to the student's account.

STUDENT ACCOUNTS

Tuition and fees are due prior to the start of each semester. Payment will be the semester's charges less financial aid (i.e. scholarships, grants, and loans). A payment plan option is available to students in good financial standing. Details are available from Student Account Services. Payment plan information is made available to each student prior to the start of each semester. Certain fees are applicable for students on the payment plan option, and the university reserves the right to change the fee structure as needed to fund the payment plan program. Paper check, E-check, VISA, MasterCard, Discover, and American Express are accepted.

Students who fail to comply with their current payment schedule are subject to finance charges and termination of enrollment. Official transcripts of academic credits are not released while any balance is owed JBU. The university engages professional collection agencies when collecting delinquent accounts.

Adjustment of Accounts

Students in traditional programs withdrawing from the university near the beginning of a traditional fall or traditional spring semester are entitled to a partial refund of tuition, course fees, and music lesson fees, adjusted according to the following schedule:

- 100% refund during the first week of the term.
- 80% refund during the second week of the term.
- 60% refund during the third week of the term.
- 40% refund during the fourth week of the term.
- 20% refund during the fifth week of the term.
- No refund after the fifth week of the term.

Room and board will be pro-rated weekly over 16 weeks per semester.

Non-course fees will not be refunded after classes have begun.

In the event of medical withdrawal prescribed by a physician, special consideration will be given to tuition adjustment.

Summer courses are presented in different formats and are not subject to the above refund schedule. Students in traditional summer courses withdrawing from a course are entitled to receive a tuition refund according to the following schedule:

- 100% before the second class meeting.
- 90% before the third class meeting.
- 80% before the fourth class meeting.
- 60% before the fifth class meeting.
- 40% before the sixth class meeting.
- 20% before the seventh class meeting.
- No refund after the seventh class meeting.

Courses that are presented in different term formats, such as international study trips or short terms, are not subject to the above refund schedule.

Music Fees

Per Semester

Practice Room Fee	\$ 25
Recital/Presentation Fee	\$ 30
Recital Recording Fee	\$ 70

One-Time Fees

Women's Chorus Wardrobe Fee	\$ 35
Cathedral Choir Women	\$ 65
Cathedral Choir Men	\$110

In addition to private lesson fees, students enrolled in applied music for credit are charged tuition according to their course load. Part-time students are charged the regular tuition fee for each semester hour of credit in music lessons as well as the private lesson fees. Students whose private lessons put them at more than a full-time load (19+ hours) will be charged overload tuition and the private lesson fees for each credit hour over 18 hours.

A student whose JBU enrollment involves only applied music may register as a student-at-large. Regular lesson fees will be paid, but no tuition will be required. The student will receive no college credit.

Visual Arts Course Fees

Certain offerings in the Visual Arts Program require a technology support fee of \$150 per course.

Pre-Health Professions Fee

A one-time fee of \$40 will be charged to a student's account upon acceptance into the Pre-Health Professions Program.

ASPIRE Program Fee

A one-time fee of \$500 will be charged to a student's account upon acceptance into the ASPIRE Program.

Honors Scholars Program Fee

A one-time fee of \$75 will be charged to a student's account upon acceptance into the Honors Scholars Program.

Study Abroad Administrative Fee \$130

Semester Abroad Administrative Fee \$200

Medical Insurance

Each student is required to have in force a medical and hospital insurance plan sufficient to cover personal needs while in college. Students who do not complete the online waiver of student health insurance by August 5th will be automatically enrolled in a third party provided insurance plan and their student account will be billed for the annual premium. Plan fees are to be determined for the 2016-2017 academic year and plan details will be available online.

Valuables

The university does not assume any responsibility for lost or stolen property, nor does it carry fire, theft, or damage insurance on the personal property of students. Upon arrival, students may engage one of the banks in Siloam Springs to handle financial matters and to provide safety deposit box services. Students are required to remove all personal property from dormitories over the summer months since the residence halls are often used by visitors.

FINANCIAL AID

The board of trustees has adopted the following policy with regard to awards of financial aid:

1. Financial aid programs funded by the institution itself are intended to supplement the various federal, state, and private donor financial aid programs administered by the institution.
2. Such institutional aid (to include athletic, academic, and leadership scholarships) will not be used to increase the total of financial aid available to the student from all sources, exclusive of any workstudy or loan arrangement, beyond
 - a. in the case of a boarding on-campus student, the total cost of room, board, and tuition for the academic year, or
 - b. in the case of an off-campus student, the cost of tuition/fees for the academic year.
3. Generally, students shall not be awarded financial aid in excess of their determined financial need. Exchange scholarship recipients through the Council for Christian Colleges & Universities or the Council of Independent Colleges (CIC) shall not be eligible for any institutional scholarships beyond their exchange scholarship.
4. Any commitment of institutional financial aid shall be expressly conditioned upon the determination by the financial aid officer of the student's prior eligibility for other federal, state, and private donor financial aid, exclusive of any workstudy or loan arrangement.
5. Federal regulation requires that a student must be making satisfactory academic progress regardless of whether he or she has previously received Title IV aid.

All students enrolled at John Brown University who receive financial aid through JBU or the federal Title IV Assistance Programs must meet the satisfactory academic progress requirements, as defined below, in order to be eligible for further aid:

Satisfactory Academic Progress

Satisfactory academic progress is deemed to have been made by a student who meets both the quantitative and qualitative requirements indicated below.

Quantitative Requirements

There are two quantitative requirements that the student must meet in order to remain eligible to apply for financial assistance. First, the student must pass, at a minimum, 67% of the credits attempted while attending the university. Also, the student will remain eligible to apply for aid as long as the number of credits attempted is not more than 150% of the number of credits required for the student's degree.

A transfer student may have earned credits at another school that will count toward his or her degree at JBU. Only transfer credits that apply to the student's degree will count as part of the 150% maximum.

Qualitative Requirements

In order to pass the qualitative requirements, the student must achieve and maintain a cumulative grade point average of at least a 2.0 ("C" average) or must have an academic standing consistent with JBU's requirements for graduation.

Appeal Process

The determination of each student's meeting the quantitative requirements for satisfactory academic progress will be made annually following the conclusion of the spring semester. If a student fails to pass at least 67% of the credits attempted, has attempted more than 150% of the number of credits required for completion of his or her degree, or has fallen below a cumulative GPA of 2.0, then the student must appeal for reinstatement of financial aid eligibility. If the student's appeal is approved, the probationary period only lasts one semester. The student's satisfactory academic progress is checked upon completion of the probationary period.

If a student does not successfully meet the satisfactory academic progress policy guidelines, the Financial Aid Director will notify the student in writing of their financial aid suspension status. The student may submit a written appeal to the Associate Vice President of Admissions and Financial Aid within 30 days of the time that the student is notified of his or her financial aid suspension. Financial aid eligibility appeals will be reviewed by the Admissions/Financial Aid Committee on a case-by-case basis.

The financial aid eligibility appeal is a separate process from the registrar's appeal process for academic suspension. A successful appeal to reinstate a student to the university after academic suspension by the Registrar's Office does not necessarily reinstate a student to the financial aid programs.

Addendum to Satisfactory Academic Progress Policy

Appeal due to mitigating circumstances: This section of the Satisfactory Academic Progress policy gives some examples where allowances may be made for mitigating circumstances. These examples are not all-inclusive. The committee may allow other mitigating circumstances on a case-by-case basis depending on the merit of the appeal:

1. Death in the family or death of a close friend.
2. Serious illness of a family member.
3. Medical complications or prolonged illness of the student.
4. Inability to attend classes because of unexpected lack of transportation.
5. Serious financial problems requiring excessive hours of employment.

How do the following affect Satisfactory Academic Progress determinations?

1. **Withdrawal:** a withdrawal ('W') is counted as an attempted class that was not successfully completed.

2. Incomplete: an incomplete ('I') is counted as an attempted class that was not successfully completed.
3. Repeated course: a repeated course is counted as attempted and successfully completed if a passing grade was earned.
4. Transfer course: transfer courses are counted as attempted and completed if the course work is applicable to the student's JBU degree.
5. Non-credit remedial course work is not applicable at JBU.

SCHOLARSHIPS

The Presidential Scholarship

Each year John Brown University awards five Presidential scholarships to applicants who have demonstrated outstanding academic achievement. To qualify, the following must be met:

1. ACT composite score of 29 or SAT 1280
2. 3.9 cumulative high school GPA or above (on 4.0 scale)
3. Leadership potential

Interview with scholarship committee is strongly encouraged.

Presidential scholarship candidates must apply for admission to John Brown University and meet all applicable admissions requirements. The total scholarship package awarded will not exceed the cost of tuition.

The scholarship is fully renewable with a 3.2 cumulative GPA.

The Chancellor Scholarship

Each year John Brown University awards forty-five Chancellor scholarships to applicants who have demonstrated outstanding academic achievement. To qualify, the following must be met:

1. ACT composite score of 29 or SAT 1280
2. 3.7 cumulative high school GPA or above (on 4.0 scale)
3. Leadership potential

Scholarship candidates must apply for admission at John Brown University and meet all applicable admissions requirements. The total scholarship package awarded will not exceed the cost of tuition.

The scholarship is fully renewable with a 3.2 cumulative GPA.

Non-Competitive Academic Scholarships

Scholarships ranging from \$4,500 to \$14,000 per year are awarded to new full-time students in recognition of academic achievement. Awards to freshmen vary according to ACT or SAT scores, cumulative high school grade point averages, and class rank.

Academic scholarships are renewed annually contingent upon the student having the required cumulative GPA at the end of each spring term. Time limit of eligibility is four years. A fifth year of eligibility may be granted in certain cases by the Scholarship Committee. Students on academic scholarships may be asked to tutor or to assume other academic-related responsibilities. Scholarship applications may be obtained by contacting the Admissions or Financial Aid offices.

Named Scholarships

Many individuals and organizations have contributed funds because they believe in the university's mission, and they desire to help make John Brown University affordable to academically qualified and deserving men and women. A large number of these scholarships are given in memory of friends or family and are perpetual in nature.

Criteria for scholarship awards may include need, merit, and leadership characteristics.

Music Scholarship and Athletic Scholarships

Scholarships are available to students with demonstrated musical or athletic ability. Music/Choral scholarships are awarded by the Music Department based on major and/or participation in such groups as the Cathedral Choir, Women's Chorus, and Instrumental Ensemble. Financial aid may be available for participation in certain sports such as men's basketball, soccer, tennis, cross-country, cheerleading, and golf, or women's basketball, soccer, volleyball, cross-country, cheerleading, and tennis.

WALTON INTERNATIONAL SCHOLARSHIP PROGRAM

Education of young people shapes a nation. Soviet leaders recognized this fact and during the mid-20th century recruited many promising young scholars from third-world nations to receive free education in universities of the Eastern Bloc. The offer was eagerly accepted, and the result was that these formally educated students-their thinking now shaped by ideals of Marxism, socialism, and atheism-returned to their homelands to rise to positions of political and economic leadership.

American entrepreneur Sam Walton decried this pattern and took it upon himself to provide an alternative for these bright individuals: Come to the United States for training in economic freedom, individual responsibility, and faith. To accomplish this goal, he established programs at John Brown University and two other private liberal arts colleges in Arkansas, by which are provided 60 annual scholarships at each school for students from Central America and Mexico. Funded independently of all other university aid programs, Walton grants cover tuition, room and board, and other associated expenses. One stipulation of the scholarship agreement is that upon completion of their training, all recipients must return to their home countries for a period of time equal to that of their studies in the U.S.

Presently entering its twenty-seventh year, the program is a resounding success. Over 1,200 students from Central America and Mexico have received the scholarship, and a very high percentage have completed bachelor's degrees and returned home, where the value of an American education is unmistakable. John Brown University's graduates of the Walton Scholarship Program have attained noteworthy positions in business, engineering, politics, computer science, journalism, education, and ministry. Mr. Walton's dream is being fulfilled.

Mr. Ronald Johnson directs the Walton International Scholarship Program at John Brown University.

FEDERAL AND STATE FINANCIAL AID PROGRAMS

The federal government sponsors student assistance programs to those who have demonstrated financial need. Through the Federal Pell Grant Program, students may receive as much as \$5,815 per year, based on authorization from Congress. Students may also be eligible for assistance from other sources, such as the Federal Supplemental Educational Opportunity Grant Program (SEOG), the Federal Workstudy Program, and Federal Direct Loans.

Many states also participate in student aid programs for residents attending college either in or out of the state. Arkansas residents may be eligible for the Arkansas Governor's Distinguished Scholarship (GDS) in the amount of \$10,000. The Arkansas Department of Higher Education also administers the Arkansas Academic Challenge Scholarship Program. This grant program offers first-time freshmen a four-year renewable scholarship in the amount of \$2,000 the first year with increases each year. Contact the Financial Aid Office for details.

Students may qualify for a low interest Federal Direct Loan (subsidized or unsubsidized) to help cover both direct and indirect costs of education. Award amounts are based on financial need.

Veterans Administration Benefits

John Brown University is an approved institution for veterans and veterans' beneficiaries training. Veterans, widows, and children of veterans who lost their lives in service, or veterans who are now disabled as a result of service should contact the nearest Veterans Administration Regional Office as far in advance of enrollment date as possible for assistance in securing Veterans Administration benefits. Information regarding this program may be obtained from the VA Certifying Official in the JBU Registrar's Office.

U.S. Air Force and U.S. Army ROTC Scholarships

Scholarships are available to qualified applicants. Scholarships pay tuition, and there may be allowances for books and additional expenditures. Selection is based on academic record, ACT/SAT entrance scores, leadership potential, a physical exam, and a personal interview. Preferences are given to technical fields and nursing, but all disciplines may apply. Army ROTC full tuition and fee scholarship recipients will receive full room and board scholarships from JBU.

Student Employment

Students may qualify for workstudy employment through the university by completing the Free Application for Federal Student Aid (FAFSA). Students with the greatest amount of determined financial need will be given preference for workstudy. Workstudy positions are available throughout the university.

Students interested in seeking employment on campus must contact the Financial Aid Office. Employment will be awarded as part of the financial aid package. Job assignments for upper-classmen will be made in accordance with student class schedules, position preference, and supervisor recommendation. All students are assigned a service-oriented position for the first year and may choose to work in food services, grounds crew, or custodial services. These areas, vital for

the daily operation of the university, require large numbers of student workers in order to function effectively. Work time is limited to around seven hours per week. Paychecks are issued to students bimonthly for hours worked under the work program. Students may apply their earnings toward their school accounts.

Workstudy participants must maintain a 2.0 cumulative grade point average to remain eligible for the program. Students failing to maintain the required GPA will be removed from the workstudy program until their cumulative GPA is at least 2.0.

Financial Aid Programs

Each year 90% of the students attending John Brown University benefit from some type of scholarship, loan, or workstudy program. Students seeking financial aid are required to complete the Free Application for Federal Student Aid (FAFSA). Only full-time students may receive institutional aid.

Based on information supplied by financial aid applications and official notifications from federal and state programs, the Financial Aid Office will determine each student's financial aid award offer. Consideration for financial assistance will occur only after the student has received a tentative or final acceptance through the Admissions Office. Returning students will be awarded assistance if they are making satisfactory academic progress. To continue to receive financial aid, application for aid must be made each year. Appropriate scholarship, loan, and workstudy awards will be made by the Financial Aid Office using the policy set by the Financial Aid Committee.

Merit scholarships are available to students based on academic, leadership, athletic, and musical talent.

Financial aid applications and information may be obtained by contacting either the Admissions or Financial Aid office. Early application is advised. The priority award deadline for applying for financial aid is March 1. Those applying after March 1 will be awarded financial aid as funds are available.

ACADEMIC POLICIES

Students Subject to the Catalog Provisions

All students are subject to the provisions of the catalog which was in effect at the time of their first enrollment at John Brown University, with the exception of charges for tuition, etc., which apply only for a specified period of time. However, students may change to a later catalog with approval of their advisor and dean or division chair by completing a Change of Catalog form in the Registrar's Office. Students may submit a Change of Catalog form until they have completed 75 hours. After that point, no further catalog changes will be permitted except in case of extended absence, as described in Graduation Requirements after Extended Absence.

Changes in Requirements and Regulations

The university reserves the right to make modifications in policies, procedures, and regulations: e.g., grading system, transfer of credit, guidelines for degree requirements, housing regulations and charges, tuition and fees, and admission standards, and to make such modifications applicable to any or all currently-enrolled students. When modifications occur, sensitivity to reasonable dates of implementation and appropriate categories of currently-enrolled students affected will be exercised. Students will be notified of such changes through the advisors, written notices, and campus publications.

Course Credits

The basic unit of course credit is the semester hour. One semester hour of credit normally represents participation by the student in the activities of one fifty-minute class period per week for 15 weeks together with adequate preparation through the use of approximately two hours outside of class for each period in class. Where additional supervised time is required such as for laboratories or listening sessions, an extended period of two to three hours may replace one regular class period. One hour of practicum credit requires weekly involvement of three to five hours, depending on the nature of the assignment.

Academic Year

John Brown University's school year comprises two semesters, with the fall term completed before the December holiday break. Each semester consists of 73 days of instruction followed by a four-day examination period. Commencement exercises follow each semester, scheduled on the Saturday after final examination week. In addition to the fall and spring semester, JBU offers traditional undergraduate courses in a four-week term (summer terms) starting on the Monday following spring commencement.

Orientation

Orientation activities for all new students begin before fall registration and may continue into the semester. The goal of the Orientation Program is to help each student make a smooth transition to college life at JBU.

Full-Time Student

A full-time student is one who is enrolled for 12 or more semester hours.

Classification of Students

A student will be classified as a sophomore when at least 30 semester hours of course work have been successfully completed; junior-60 hours; senior-90 hours.

Academic Advising

All undergraduate students are assigned an academic advisor in connection to their chosen major. Students who are undeclared are advised by an advisor who works solely with undeclared students until such time as the student declares a major. Students are responsible for seeing their advisor for schedule planning each semester as well as for determining a graduation plan and other major-related issues. Advisors will help guide students in planning, but are not responsible for students' meeting graduation requirements. This responsibility lies with each individual student.

Summer Terms

John Brown University offers a four-week May term which begins the Monday after spring commencement. Students may earn as many as six credit hours, with most available courses satisfying requirements in the Core Curriculum. Summer tuition for undergraduate work is one-half the regular credit hour rate. Housing and meal plans are available on campus during the session.

Credit by Examination

Means of establishing credit include the College-Level Examination Program (CLEP), Advanced Placement Programs (AP), International Baccalaureate Program (IB), A and AS Level Exams, and in some cases, departmental course equivalency exams. A maximum of 30 semester hours of such credit may be applied toward the bachelor's degree; 15 maximum for the associate's degree. Students are not permitted to take the CLEP test for any course in which they are currently enrolled or have been enrolled in during the current semester. Details about examination approval and course equivalence are available from the Registrar's Office. Graduating seniors must have completed all CLEP exams before the first day of their final term in residence. CLEP exams are administered by the Office of Academic Assistance.

If a departmental course equivalency exam exists for a course, qualified students may earn credit by passing the examination with a grade of 'B' or better. Students interested in taking the equivalency exam should obtain a departmental course equivalency exam request form from the Registrar's Office, obtain approval for taking the equivalency exam from the head of the department in which the course is offered, pay the equivalency exam fee in the cashier's office, and then schedule the exam with the head of the department. The head of the department will forward the departmental course equivalency exam form to the Registrar's Office. Where appropriate, credit for the course will be added to the transcript with a grade of CE (credit by examination). No fee, other than the initial equivalency exam fee, must be paid to receive institutional credit.

Availability of Courses

Accompanying the description of each course in the back section of this catalog is an indication of the semester in which the course is to be offered. This data is subject to occasional modification.

Accordingly, the university reserves the right to withdraw, with reasonable notice, any course offering for a particular semester.

Independent Study

Independent study courses are those in which students do not meet in a typical classroom setting but study independently under the regular supervision of a full-time faculty member. The topic of study may be an area of special interest normally outside of the existing curriculum. A student must complete an application for Independent Study form that can be picked up at the Registrar's Office. Approval must be provided by the professor supervising the independent study and the dean of the college or chair of the division in which the course resides. A non-refundable fee of \$121 per semester hour will be charged to the student. In some special circumstances, the college dean or division chair may waive the fee. The student will pay all normal per-credit tuition charges for hours below 12 or above 18 hours.

Prerequisites and Corequisites

Students are not permitted to enroll for courses for which they have not completed all prerequisites. A prerequisite course must have been completed with an acceptable passing grade before enrollment in the given course is permitted. A corequisite is a course in which a student must be enrolled and satisfactorily participating simultaneously to the given course. The instructor of a course can waive a prerequisite for a specific student.

Required Enrollment in Specific Core Curriculum Courses

All regularly enrolled students must complete both the freshman level Core Curriculum Bible courses by the end of their first two years of attendance.

All regularly enrolled students except those in associate degree programs must enroll for EGL 1013 and EGL 1023 during their first two semesters of enrollment. However, some students are required to complete English as a Second Language or EGL 1003 Basic Writing before enrolling in EGL 1013.

All new students must complete the Gateway Seminar in Christian Scholarship during their first semester of attendance.

Maximum Course Load

The normal maximum semester load is 18 credit hours, but the student's grade point average affects the limit for the next term. A full-time student who earns a 3.0 GPA during a semester at JBU will be permitted to enroll for an increased load. First-time freshmen students are limited to a maximum of 18 hours during their first semester.

<u>GPA</u>	<u>Next semester maximum</u>
Sem 3.0 to 3.24	19 semester hours
Sem 3.25 to 3.49	20 semester hours
Sem 3.5 or better	21 semester hours
Cum Below 2.0 (Academic Probation)	15 semester hours

Enrolling for any credit hours beyond 18 in a semester will incur additional tuition charges at one-half the regular per-hour rate, regardless of prior grade point average. Enrollment for more than 21 hours is permitted only upon approval of a petition to the Dean of Academic Services.

The maximum summer term load is six credit hours. A student whose grade point average for the previous semester was 3.25 or better may petition to enroll for additional hours.

Late Enrollment

Any student who enrolls after the close of the regular registration period may be subject to limitations in the course load. No student is permitted to enroll for the semester after the end of the tenth day of classes.

Auditing Courses

Students may register for courses on a non-credit or audit basis, provided the proper procedure is followed, either at initial registration for the semester or by official change of registration prior to the stated deadlines. The names of such students will be entered on the class roll, and the class appears in the student's academic record, but without credit and with final grade of 'S' or 'U'. It is the responsibility of the student to obtain a statement of grading criteria for satisfactory participation from the instructor. Tuition is charged at one-half of the rate of for-credit registrations and subject to the same regulations.

The last day to add a course under 'audit' status and the last day to change a course from 'audit' to 'credit' status is the last day to add a course. The last day to change from 'credit' to 'audit' status is the last day to drop a course.

Adding and Dropping Courses

Courses may be added after initial registration, provided the procedure is completed by the close of the second week of classes. Courses dropped by the approved procedure before the end of the eighth week of classes will not appear on the permanent record. Non-completion of a course thereafter will result in a letter grade based upon the student's performance relative to the required work for the complete course.

Withdrawal from the University

A student may petition for permission to withdraw from all course work for a semester after the last date to drop a course. Such a petition should be directed to the Dean of Academic Services.

Every student withdrawing from the university before the end of a semester is required to obtain from the Student Development Office an application for withdrawal, have it properly signed by the necessary officials and return it to the Registrar's Office. Failure to execute such an application may result in refusal to grant any possible refunds to the student.

In the event of withdrawal from school, courses are posted on the transcript with each showing a grade of 'WP' (withdrew, passing) or 'WF' (withdrew, failing). No credit is earned for the term.

Transcript Request

An official transcript of a student's academic record may be obtained by submission of a written request to the Registrar's Office, provided the student has made satisfactory arrangements with the Business and Financial Aid Offices with respect to financial obligations. Transcripts are not released unless the student grants permission through a signed statement.

The first official transcript is issued without charge; a \$5 charge is incurred for each transcript thereafter.

ACCESS TO EDUCATIONAL RECORDS (FERPA)

The Family Educational Rights and Privacy Act of 1974 (FERPA) extends to all former and presently enrolled students at John Brown University the right of access to certain educational records maintained by the institution. Student rights include (a) inspection and review, (b) explanation or interpretation of contents, (c) duplication of the record at a standard fee, and (d) a formal hearing, if necessary, to challenge the contents of any such record.

ATTENDANCE REGULATIONS

A student must be registered for a class and on the official roster in order to attend. This includes students who are attending under audit status.

Attendance at and participation in all class sessions, except for times when students are absent for reasons beyond their control, is regarded as essential. Class activities are planned for the benefit of all students.

Classroom Demeanor

Students are expected to display classroom behavior that is appropriate to a Christian university. A professor may remove a student from a class if, in the professor's judgment, the student displays behavior that is uncivil, defiant, or otherwise disruptive to the classroom learning environment.

Students dismissed from a class may not return to the class without the permission of the professor. Students may appeal any such removal by following the Academic Grievance process outlined in the Student Handbook.

Results of Failure to Attend Class

A grade of 'F' is given for any course in which a student has missed half or more of the class meetings, whether the absences are excused or unexcused, unless the student has completed withdrawal from the class before the stated deadline. An absence is recorded for each class missed by a student, including the first meeting of a class following registration, regardless of the reason for the absence.

The responsibility for attending class rests with the student.

Excused Absences. Students will be allowed to make up for full credit work missed because of an excused absence. Under the following circumstances an absence will be excused:

- a. Death or serious illness in the immediate family.*
- b. Participation in intercollegiate athletic events.*
- c. Class field trips which are required as class assignments.**
- d. Club trips which are designated as educational in nature.**
- e. Trips sponsored or sanctioned by the university authorities as university business.*
- f. Trips required by Armed Services or the Veterans Administration.*
- g. Local emergencies requiring the immediate attention of certain students.*
- h. Other reasons which are acceptable to the instructor.*

Absence due to illness of the student does not necessarily qualify as excused. Each instructor has the prerogative to establish policy on this issue. The policy is to be clearly stated in the syllabus at the beginning of the semester. Other absences are considered unexcused.

Procedure for Excused Absences. Although the instructor is obligated to allow the student to make up for full credit work missed because of an excused absence, such credit must be established through the initiative of the student in accomplishing the work to the full satisfaction of the instructor. Prior notice is expected for any known activities which will interfere with class attendance.

It is the responsibility of the student to notify the professor in advance of any class activity that will interfere with class attendance. Such notification must be made in a manner consistent with the stated expectations in the professor's course syllabus.

* Professors and club sponsors must propose educational trips to the Dean of Undergraduate Studies for approval as excused absences. Educational trips should be planned in such a way as to minimize potential conflicts with other classes as much as possible.

Unexcused Absences. Faculty members are neither obligated nor expected to permit a student to make up work missed because of unexcused absences, including unexcused absences for which no penalty is assessed in accordance with the attendance policy. If a student is allowed to make up such work, full credit may not be allowed.

The number of unexcused absences in a course may be used as a factor in determining a student's grade. It is the obligation of the instructor to explain the policy at the beginning of the course. If the student attends more than half of the class meetings and thus is eligible for credit, the attendance factor may not exceed 25 percent of the total grade basis in the course.

Non-Attendance Resulting in Withdrawal

Except in case of extenuating circumstances, students who do not attend any class for ten consecutive days may be withdrawn from John Brown University for non-attendance. Courses will not be recorded if the withdrawal occurs before the eighth week of the semester. Students will have a grade of 'WP' (withdrawn, passing) or 'WF' (withdrawn, failing) recorded if they are withdrawn after the seventh week of the semester.

It is the responsibility of the student to contact instructors, advisor, Registrar's Office, Business Office, Financial Aid, and Student Development if extenuating circumstances exist.

Chapel Attendance

Chapel is an essential part of fulfilling John Brown University's basic mission of providing a "Christ-centered higher education" and therefore, attendance is a requirement for all students (see Student Handbook). The purpose of chapel is to gather the university family in the context of worship to better know, love, and glorify God, to gain His perspective on our learning, and to grow together as a Christ-centered community while committing ourselves to serving in the world as Jesus' disciples. Chapel is not a replacement for participation in a local church, and students are encouraged to find a home church while at JBU. Students are also encouraged to take part in the various ministry and discipleship opportunities provided through the university Student Ministries Office.

ACADEMIC INTEGRITY

As a Christian institution of higher education, John Brown University seeks to maintain the highest standards of academic integrity. Violations of these standards will result in substantial penalties. The university is responsible to clearly articulate the Academic Integrity policy to students and faculty by publishing it in the Student Handbook, in the Faculty Handbook, and by informing all first-year students of this policy. Faculty are to reference the policy in their course syllabi.

However, the primary responsibility for knowledge of and compliance with this policy rests with the student.

GRADING SYSTEM

Indication of each student's progress is reported regularly by instructors. The grading scale used as a basis for letter grades is established by the instructor of each course.

Grade Points per Semester Hour (effective Fall 1999)

A Superior Accomplishment	4.0
A-	3.7
B+	3.3
B Commendable Accomplishment	3.0
B-	2.7
C+	2.3
C Satisfactory Accomplishment	2.0
C-	1.7
D+	1.3
D Minimal Accomplishment	1.0
F Failure	0.0

The following are not included in grade point average:

- I - Incomplete work
- S - Satisfactory
- U - Unsatisfactory
- NC - No credit earned
- WP - Withdrew, passing
- WF - Withdrew, failing
- W - Withdrew

Incomplete Grades

An incomplete ('I') grade must be made up within 30 days after the official grade reporting date. After the 30 days, the incomplete grade will be changed to a grade of 'F'. In extenuating circumstances, the instructor may request an extension date from the Dean of Academic Services. An 'F' grade that results due to a grade of incomplete 'I' may be changed upon approval of the instructor and the Dean of Undergraduate Studies.

When an 'F' grade has been received (other than an incomplete 'I' grade changed to 'F'), credit cannot be secured for work without repetition of the entire course.

Internship Grading

Internships and practicums may be evaluated using standard letter grades. However, because of the subjective nature of the experiences, grades of 'S' or 'U' normally are assigned. Credit hours accrue in either case.

Grade Renewal

A student may repeat any course on his or her academic record with prior approval of the department and the registrar, with the understanding that all courses and grades will remain on the permanent record. However, only one taking of the course may contribute hours to the total for graduation, and only the highest grade received will be included in the calculation of the student's grade point average. If the student receives permission and renews a grade by means of transferring an equivalent course from another institution, the completed course is posted with a grade of 'CR', and any prior attempts are excluded from graduation hours and the grade point average.

SCHOLASTIC ACHIEVEMENT AWARDS

Recognition of Superior Achievement

Full-time students attaining certain standards of scholastic achievement are placed on the President's or the Dean's List of Distinguished Students at the end of each semester, and attention is drawn to them through various media. To qualify for the Dean's list, the student must have at least 3.4 term grade point average, and at least 3.8 term grade point average for the President's list.

Degree Honors

Upon completion of the associate's or bachelor's degree, each graduate who has attained a cumulative grade point average of 3.6 or above is recognized with an appropriate degree honor. Eligibility is contingent upon completion of at least 60 semester hours of graded course work at John Brown University. Graduation honors are indicated on the diploma, and by the wearing of an appropriate medal on the gown during the commencement exercises.

Cum Laude-cumulative grade point average at least 3.6

Magna Cum Laude-cumulative grade point average at least 3.8

Summa Cum Laude-cumulative grade point average at least 3.9

Students who have between 39 and 59 semester hours of graded course work at John Brown University and have a grade point average of 3.8 or higher will graduate "with distinction."

University Honors Degree

Each student who has successfully completed twenty-one hours of honors courses (as outlined under Honors Scholars Program) will be granted a diploma certifying that they have earned a university Honors degree. Such graduates will be identified in the commencement program.

Vera and Spencer Bartlett Respect Awards

These awards, in memory of Vera and Spencer Bartlett, are presented each spring to students who are judged to best exemplify the greatest respect for God, for the United States of America, and for other people. To be eligible, a student must be a junior continuing into their senior year, a citizen of the United States, and must have average grades or better.

Academic Probation and Required Achievement for Continued Enrollment

1. A full-time student with a cumulative grade point average (CGPA) less than 2.0 will be placed on probation the following semester.
2. The maximum enrollment per semester for any student on academic probation is 15 semester hours. Students should understand that such limited enrollment may lengthen the time required to meet graduation requirements.
3. A student whose CGPA is still below 2.0 after being on probation for two successive semesters, or a student with less than a 1.0 semester GPA, will be suspended unless a petition for re-enrollment is approved by the Committee on Scholastic Petitions.
4. A student may enroll after one semester of academic suspension if a petition is approved by the Committee on Scholastic Petitions.
5. A student who is permitted to re-enroll after academic suspension may continue to re-enroll if satisfactory progress is being made toward a 2.0 CGPA as determined by the Committee on Scholastic Petitions.
6. A student on Academic Probation may remain eligible for some types of financial aid, if standards for Satisfactory Academic Progress are met.

APPEAL

Occasionally a student may wish to appeal an academic action such as a grade, graduation requirement, or a withdrawal penalty. Such appeals should be made in writing to the appropriate dean. In most cases the student should first request the support of their academic advisor, department head, dean, or division chair.

DEGREE REQUIREMENTS

Requirements for the Bachelor's Degree

John Brown University offers four-year courses leading to the following degrees: Bachelor of Science (B.S.), Bachelor of Arts (B.A.), Bachelor of Science in Engineering (B.S.Eng.), Bachelor of Science in Education (B.S.E.), a Bachelor of Science in Nursing (B.S.N.), and Bachelor of Music Education (B.Mus.Ed.). Also offered are two-year courses leading to the Associate of Arts (A.A.) and Associate of Science (A.S.) degrees.

Requirements which apply to all degree programs are set forth in this section. In addition, requirements applicable to specific degree programs are stated in the curricular outlines which appear in the college or divisional sections of the catalog, except that teaching degree requirements are found in the College of Education and Human Services. Most departments also have available suggested schedules which indicate courses taken in each semester in a typical program.

The final responsibility for meeting all degree requirements rests with the student.

Education at John Brown University

John Brown University provides an education that integrates the disciplinary studies selected by the student (the major field) with a more broadly based selection of educational experiences for each student. This combination of the specific with the more general is founded on JBU's educational philosophies and goals.

John Brown University holds that higher education and career preparation are not synonymous. While JBU has traditionally emphasized preparation for well-defined careers, it has done so within the context of a liberal arts college. Consequently, a John Brown University education consists of three elements: the major, the Core Curriculum, and the Co-Curriculum. The courses in the major prepare the student for a career or for graduate school, while the Core Curriculum presents a broad exposure to human learning, an appreciation of which is characteristic of the balanced, whole college graduate. Many aspects of the model of wholeness are not addressed in either the major or the Core. Therefore, the extra- or co-curricular aspect of the college experience-the Co-Curriculum-is an important component of JBU's education program.

Requirements for Additional Bachelor's Degree

For two bachelor's degrees, a minimum of 154 semester hours must be completed, incorporating all program specifications. Students completing two degrees may fulfill the Core Curriculum requirements of the degree program with the fewest core requirements.

The major requirements of each degree program must include 24 or more semester hours of course work not included in the major field of the other degree program. At least two upper-division courses in the second major field must be taken in residence at JBU. A maximum of 36 credits by exam may be included. All other stipulations of the residence requirements apply to the second as well as to the first degree.

A third bachelor's degree requires completion of a minimum of 184 semester hours.

Additional Bachelor's Degree after Conferral of First Degree

When a student desires to begin an additional bachelor's degree at JBU after having had one or more bachelor's degrees conferred by JBU, the student must apply through the admissions process as a degree-seeking student.

At the point in time when the first degree is conferred, that degree is frozen. No additional majors, minors, or emphases will be added to the degree, and the GPA for the degree is final. If a second degree is in progress at the time the first degree is conferred, then the student will be allowed to complete the second degree without readmission.

For an additional degree, the Core Curriculum will be considered met except for any additions to the core which have occurred since the catalog under which the student earned the previous degree(s). The student will meet the requirements for the degree in the catalog that is current when he/she applies for readmission. The student must complete at least 30 unique major hours for the second degree and at least nine unique hours for a new minor.

Additional Requirements

Entrance Assessment

All entering students, including transfers, are required to participate in appropriate assessment activities. These include, but are not limited to, the CIRP (a freshman survey used nationwide) and the Student Relationship Assessment (SRA). Students are re-tested as seniors with an Exit Assessment and the results are used as the basis of a longitudinal study.

Major Subject Area

The undergraduate major defines the primary focus for a bachelor's degree. Every bachelor's degree is associated with the fulfillment of the requirements of at least one major program. Typically, requirements for a major program constitute about one-third of the bachelor's degree requirements, the Core Curriculum another third, and the remaining third of the bachelor's degree is available for supporting course work, electives, or minors in fields outside the major. Some majors, especially those programs designed to prepare students for specific professions (e.g., Construction Management and Education), may require most of the course credits not used to meet Core Curriculum requirements, while those programs most oriented toward the liberal arts will generally seek to maximize the opportunities for students to select from a broad range of course work.

Each bachelor's degree program requires a minimum of 36 semester hours in the major field, including a minimum of 18 hours of upper-division courses - at least two courses of which must be taken in residence at John Brown University. The college or division chair or department head has the prerogative of approving substitutions for courses specified by a major department.

A second major may be added to any degree program providing all of the requirements of both major fields are met.

Most bachelor's degrees require a minimum grade point average of 2.25 for major area course work. The Department of Teacher Education requires a 2.5 average for professional education and specialized field courses.

Minor Subject Area

An undergraduate minor is a formally recognized aggregate of courses in a designated secondary subject area, discipline, or interdisciplinary program usually outside of (but often complementing) the student's degree major and in which knowledge is gained in a coherent pattern of courses.

Completion of a minor requires 18 to 21 semester hours, in accordance with the department's specifications, including at least six hours of upper division courses. The minimum grade point average for course work in the minor is 2.0.

Upper-Division Courses

Each candidate for a bachelor's degree is required to submit a minimum of 35 hours in upper-division (junior-senior) courses, identified by numbers 3000 and above. Included in this total are the eight upper-division hours specified in the Core Curriculum, courses in the major and minor fields, as well as electives.

Foreign Language

In general, Bachelor of Arts curricula specify 12 semester hours of foreign language. The specific requirements for a major are listed in the program requirements. A student placed into the intermediate level of a language can meet this requirement with six semester hours of 2000 level courses in LS.

Most Bachelor of Science programs do not require foreign language.

Minimum Total Semester Hours

Completion of any bachelor's degree at John Brown University requires at least 124 hours of academic credit. Certain programs exceed the minimum.

Sufficient course work must be completed to offset any deficiency in total number of semester hours, in addition to all other specific requirements, preferably in an area which will enrich and broaden the student's acquaintance with the major areas of knowledge and/or strengthen mastery of a field of concentration.

Grade Point Average

The grade point average of all degree work must be at least 2.0, in the minor subject at least 2.0, and in the major subject at least 2.25. Department of Teacher Education programs require a cumulative GPA of at least 2.7, and at least 2.5 in professional education, the teaching field, and any other state-required courses. Nursing students must have a minimum GPA of 2.8 prior to beginning upper-division course work.

Exit Assessment

All seniors are required to participate in designated assessment activities as a condition of graduation. Such activities may include, but are not limited to a standardized test in the student's major field and exit interviews with faculty members in the student's major department and/or members of the Core Curriculum Committee.

Residence Requirements

Fulfillment of the residence requirements for the bachelor's degree from John Brown University consists of the following:

1. Completion (after achieving junior standing) of at least two full-time semesters in residence.
2. Completion (by means of courses taken in residence) of at least 36 of the final 45 semester hours of credit presented in fulfillment of degree requirements. CLEP credit is not considered as "taken in residence."

Correspondence and Extension Work

A maximum of 30 hours of degree credit may be earned through correspondence and extension work. Each course must include a proctored exam and must be approved in advance by the major advisor and registrar. Approval forms are available in the Registrar's Office.

Transfer of Credit

Credit which has been earned at another institution will be reviewed by both the registrar and the appropriate college or division faculty, and the applicability to courses in the chosen degree program will be determined. Each course accepted for transfer must have a minimum grade of 'C'. All work completed at previous institutions will be posted as 'CR' on the student's JBU transcript. Thus, only JBU course work will apply toward the student's grade point average.

John Brown University accepts credit from regionally accredited institutions and Bible credit from schools accredited by the Association for Biblical Higher Education (ABHE). Transfer credits from international affiliated institutions are evaluated on a case-by-case basis.

Currently enrolled students planning to take course work at other institutions must receive prior written approval of the academic advisor and the registrar. Official course descriptions of proposed work are required.

Maximum Experiential Credits

The maximum total credit allowed for vocal and instrumental ensembles toward the requirements of a bachelor's degree is twelve hours for music majors and four hours for non-music majors; two hours may apply to associate's degrees.

The maximum allowed for Department of Communication practicums is twelve hours toward bachelor's degrees in Communications, six toward other bachelor's or associate's degrees in Communications, and three toward other associate programs.

Most students pursuing biblical degrees are required to earn four Biblical Studies internship credits; however, these students are permitted to earn as many as six hours. The Christian Ministry and Formation degree requires a six-credit experience while the Outdoor Leadership Ministries degree requires a 12-credit experience. Majors outside the division may include a maximum of three Biblical Studies internship hours.

International Baccalaureate Program

Credit is awarded for higher level international baccalaureate (IB) courses accompanied by scores of five or above on the respective IB exams. JBU course equivalences and the number of credit hours awarded are determined upon evaluation of the IB work.

THE CORE CURRICULUM

John Brown University's core curriculum provides a common set of broadly oriented foundational courses that instill a deeper, integrative understanding of scripture, creation, and culture in order to prepare students to honor God and serve others.

Goals of the John Brown University Core Curriculum

The Core Curriculum seeks to equip students to

HEAD

1. Apply biblical truth and a Christian worldview to all areas of study.
2. Appreciate the complexity and diversity of creation and culture.
3. Understand and apply multiple approaches to discovering truth.
4. Critically evaluate ideas and arguments.
5. Communicate effectively in speech and in writing.
6. Discern and appreciate beauty in the arts and sciences.
7. Draw connections between various subjects of study.
8. Become lifelong learners.

HEART

9. Develop a mature, discerning Christian faith.
10. Demonstrate Christian character in all areas of life.
11. Build and nurture healthy relationships.

12. Understand and practice emotional maturity.

HAND

13. Serve others.

14. Practice Christian stewardship of their bodies, time, and other resources.

15. Apply Christian ethics to society and the environment.

16. Participate through their vocation in God's creative and redemptive purposes in the world.

In order to accomplish these goals, the Core Curriculum seeks a middle ground between the extremes of a common core and a cafeteria system. Its basic philosophy is to provide all students with a common set of core classes during their early years, allow them to choose from a variety of courses within basic subject areas during their middle years, and culminate their college experience with a series of upper-level common courses, as shown below.

Core Curriculum Courses

1. Lower-Level Core Classes - 23 hours

BBL 1013 Old Testament Survey

BBL 1023 New Testament Survey

COR 1002 Gateway Seminar in Christian Scholarship

EGL 1013 English I: Composition

EGL 1023 English II: Literary Analysis and Research

HST 1013 Western Civilization I

HST 1023 Western Civilization II

POL 2013 American Government

2. Elective Core - 21-24 hours

Students select from among the approved course offerings that satisfy requirements in the following areas. These offerings are subject to change as new courses are developed. Students should consult the online catalog for the most current list.

- Wellness - 2 hours

KIN 1002 Wellness for Life

KIN 1012 Lifetime Fitness

NUR 1022 Concepts in Community Health & Wellness

- Wellness Activity - 1 hour

KIN 1021-91 Wellness Activity Courses

- Natural Science - 6 hours (students select three hours from Life Sciences and three hours from Physical Sciences)

Life Science options:

BIO 1003 Biological Science

BIO 1124 Cell Biology

GSC 1043 Elementary Science Content I

Physical Science options:

CHM 1014 Fundamentals of Chemistry

CHM 1124 General Chemistry I

GSC 1023 Physical Science

GSC 1033 Astronomy

GSC 1053 Elementary Science Content II

PHY 1114 Fundamentals of Physics I

PHY 2114 General Physics I

- Mathematics - 3 hours

BUS 2193 Business Statistics

MTH 1113 College Algebra

MTH 1123 Survey of Calculus

MTH 1134 Calculus I

MTH 2003 Introduction to Statistics

MTH 2103 Applied Statistics for Scientists

PSY 2383 Statistics for the Behavioral Sciences

- Philosophy - 3 hours

POL 3003 Political Philosophy (or RPH 3013)

RPH 3003 Introduction to Philosophy

RPH 3013 Political Philosophy

- The Arts - 3 hours

ART 2163 Irish Art and Culture

ART 2233 Art History I (must be a Visual Arts major or minor to register for this course)

ART 2333 Art, Design, and Creativity

ART 2343 European Art Tour

BBL 4453 Art and Archaeology of Jordan

COM 2083 Masterpieces of Film

MUS 1203 Liberal Arts Foundations for the Musician

MUS 2003 Masterpieces of the Arts

MUS 2083 Masterpieces of Music

- Social Science - 3 hours

ECN 2003 Basic Economics

ECN 2113 Principles of Microeconomics

ECN 2123 Principles of Macroeconomics

ECN 2543 Economics and Society of Ireland

ED 2143 Learning Theories and Developmental Psychology

FAM 2123 Psychology of Relationship Development

FAM/PSY 2413 Developmental Psychology

ICS 2123 Cultural Anthropology

PSY 1013 Introductory Psychology

SST 1113 Introduction to Sociology

- Global Studies - 0-3 hours

ART 3553 Social Documentary Photography Abroad

BBL 3583 Perspectives on the World Christian Movement

ECN 4103 International Economics

ECN 4423 Economic Growth and Development

ED 2033 Cultural Competencies for Human Service Professionals

EN 3513 International Problem Solving

FAM 4113 Intercultural Family Seminar

GSC 3003 Global Stewardship

HST 3443 The Modern Middle East

HST 3473 African Civilization since 1850

ICS 2113 Intercultural Communication

ICS 2991/93 Study Abroad Experience¹

ICS 3173 Selected Topic: History and Culture of Ireland

INT/MGT 2183 International Management

INT/MKT 3153 International Marketing

LS 1593 Introduction to Latin America

POL 2213 Comparative Politics

RPH 3533 Introduction to Islam

RPH 3543 Introduction to Hinduism and Buddhism

SST 1133 Cultural Geography

SST 1143 World Regional Geography

- > Three hours of intermediate-level modern foreign language

- > A four-week minimum study abroad program

- > A cross-cultural internship as determined by one's major or minor

3. Upper-Division Core Classes - 8 hours

BBL 3003 Evangelical Theology

BBL 4002 Capstone Seminar in Christian Life

EGL 4003 Masterpieces of Literature²

¹Students who plan to spend a minimum of four weeks in a cross-cultural experience may take ICS 2991/93 Study Abroad Experience as an Independent Study course to fulfill their Global Studies requirement. The student must arrange to complete ICS 2991/93 before participating in the cross-cultural experience. Further information is available through the International Programs Office.

²May also be satisfied by taking one of EGL 2213 World Literature I or EGL 2223 World Literature II and one of EGL 3313 Medieval Literature, EGL 3333 Shakespearean Drama, EGL 3353 Nineteenth Century British Literature, EGL 2413 American Literature to 1990, EGL 3323 Renaissance Literature, or EGL 3343 Restoration and Eighteenth Century Literature.

Global Studies Exemptions

International students are exempt from the Global Studies requirement. Students from the United States who have significant cross-cultural life experiences may qualify for Global Studies exemption. Students should consult the Global Studies Exemption form on the JBU web site to determine if they have sufficient cross-cultural experience to apply for exemption

Sequencing of Core Curriculum Courses

The Core Curriculum is designed to function as an interrelated whole. Thus the courses are sequenced, with some serving as prerequisites to others. Instructors in upper-level courses are able to assume a base of knowledge and understanding and use that as a foundation on which to build. In particular, the Gateway Seminar in Christian Scholarship introduces students to the Core Curriculum and establishes a Christian framework for education. The Capstone Seminar in Christian Life culminates the Core Curriculum experience and prepares students to be active participants in the Kingdom of God. Thus, the Capstone Seminar must be taken at John Brown University.

Core Curriculum Course Exemptions

Students in some degree programs that are subject to external accreditation requirements are granted exemptions to certain Core Curriculum courses. All such exemptions are listed in the catalog section pertaining to the particular degree program.

THE CO-CURRICULUM

Complementary to and supportive of the Core Curriculum is the Co-Curriculum. The Core and Co-Curriculum have many of the same goals, some of which, especially those of the spiritual, social, and emotional dimensions, are more strongly addressed through the Co-Curriculum. Co-curricular components include Freshman Orientation, the Chapel program, student organizations (e.g., SGA,

Cause Ministries, Residence Hall Associations, growth and support groups (Passion), lectureships and other special events, counseling, the Career Development Center, the Academic Assistance Program, forums, and other out-of-class programs presented by the faculty and staff, the Lyceum Artists Series, intramural sports, Residence Life programs, programming for married students, Soderquist Leadership, the Center for Healthy Relationships, and the student leadership programs.

The Core Curriculum and Co-Curriculum are mutually reinforcing and interdependent.

REQUIREMENTS FOR THE ASSOCIATE'S DEGREE

Every program requires at least 62 semester hours of credit, and it should be possible to complete any of the degrees in four semesters. Each two-year degree program carries general education requirements, requirements specified by the department, and residence requirements.

The final responsibility for meeting all degree requirements rests with the student.

General Education Requirements for the Associate's Degree

The following courses in the university Core Curriculum must be completed by all students pursuing associate's degrees:

1. Lower-level Core Classes - 17 hours

BBL 1013 Old Testament Survey

BBL 1023 New Testament Survey

COR 1002 Gateway Seminar in Christian Scholarship

EGL 1013 English I: Composition

EGL 1023 English II: Literary Analysis and Research

One of the following:

HST 1013 Western Civilization I

HST 1023 Western Civilization II

2. Elective Core Classes - 11 hours

Wellness - 2 hours

KIN 1002 Wellness for Life

KIN 1012 Lifetime Fitness

NUR 1022 Concepts in Community Health & Wellness

Mathematics - 3 hours

BUS 2193 Business Statistics

MTH 1113 College Algebra

MTH 1123 Survey of Calculus

MTH 1134 Calculus I

MTH 2003 Introduction to Statistics

MTH 2103 Applied Statistics for Scientists

PSY 2383 Statistics for the Behavioral Sciences

Social Science - 3 hours:

ECN 2003 Basic Economics

ECN 2113 Principles of Microeconomics

ECN 2123 Principles of Macroeconomics

ECN 2543 Economics and Society of Ireland

ED 2143 Learning Theories and Developmental Psychology

FAM 2123 Psychology of Relationship Development

FAM/PSY 2413 Developmental Psychology

ICS 2123 Cultural Anthropology

PSY 1013 Introductory Psychology

SST 1113 Introduction to Sociology

Natural Science - 3 hours:

BIO 1003 Biological Science

BIO 1124 Cell Biology

CHM 1014 Fundamentals of Chemistry

CHM 1124 General Chemistry I

GSC 1023 Physical Science

GSC 1033 Astronomy

PHY 1114 Fundamentals of Physics I

PHY 2114 General Physics I

Residence Requirements

Students in associate's degree programs must complete two or more full-time semesters at John Brown University. At least 18 of the last 24 hours presented in fulfillment of degree requirements must be taken in residence. At least two courses totaling four credit hours in the major field or emphasis must be taken at JBU.

Correspondence and Extension Work

A maximum of 15 hours of credit may be allowed for extension work, including examinations for the establishment of credit.

Grade Point Average

The grade point average must be at least 2.0 in work presented for an associate's degree, and at least 2.0 in the major subject or emphasis.

Maximum Experiential Credits

A limited number of credits for music ensembles, communications practicums, and guided field experience may be counted in the minimum hours for an associate's degree.

REQUIREMENTS FOR A SECOND ASSOCIATE'S DEGREE

1. Minimum of 90 semester hours.
2. All requirements for both degrees.
3. Six hours taken in residence in second major field.
4. All other provisions of the residence requirements for the first degree.

GRADUATION AND COMMENCEMENT

Application for Graduation

An application for graduation form is provided online as part of the pre-registration process for students registering for their final semester in residence before completion of degree requirements. This application provides information regarding the graduation fee, exit assessment requirements, and a final check of the student's name as it is to appear on the diploma and in the commencement program.

Participation in Commencement Exercises

Degree candidates may participate in commencement exercises only upon completion of all degree requirements no later than the last day of the semester. Any course work in progress at other institutions must be completed during terms ending no later than one week following JBU commencement. If grades for the transfer work will not be reported at least five weeks prior to commencement, the student must complete and return to the registrar a Commencement Participation Approval form, available in the Associate Registrar's Office. Students may petition the Dean of Undergraduate Studies for permission to participate in commencement with courses pending as long as they have a plan to complete any pending course work within a few months of commencement. Students enrolled at JBU who complete their degree during their final semester of attendance are only eligible to participate in the commencement ceremony held at the end of that semester.

For students who leave JBU with unmet degree requirements, eligibility to participate in commencement is limited to the commencement at the end of the following semester. Students not enrolled at JBU during the semester in which they plan to graduate must contact the Registrar's Office in writing during the first two weeks of the semester, declaring their intention to participate in commencement. Failure to do so may result in the student not being listed in the commencement program. Furthermore, participation eligibility is dependent upon compliance with all of the deadlines posted on the JBU commencement web site.

Graduation Requirements after Extended Absence

In general, a student is required to graduate under the requirements of a catalog which is current at the time of graduation. Current catalogs are those dated for the year in which a student's degree is conferred and for the four preceding years.

A student who, after an extended absence, desires to complete graduation requirements under a catalog which was in effect while the student was in residence at JBU is subject to the following:

1. The student must meet the requirements in the major field as listed in a current catalog completing in the five years prior to graduation a minimum of six semester hours in the major field (as approved by the major department).
2. If general education requirements were completed under the older catalog, the general education requirements of a current catalog are considered met. In areas (biblical studies, social studies, natural science, etc.) where not all general education requirements were completed, current catalog requirements must be met.
3. A student completing one of the teacher education curricula must meet Arkansas certification requirements in effect at the time of graduation.
4. All provisions of the residence requirement must be met.

Fresh Start Policy

A student who re-enrolls in the university after an absence of seven or more years and completes one full-time semester or term with a 2.0 GPA or higher may request a "Fresh Start" by petitioning

the Dean of Undergraduate Studies. This petition must be made within one semester following the first semester in which a 2.0 or greater is earned. If the petition is approved, none of the credits earned prior to the absence will be included in the GPA calculation and only those with a 'C' or higher may be used to fulfill graduation requirements. In effect, the Fresh Start treats early JBU work as transfer work. After the "Fresh Start" is applied to a student's transcript, those courses with a 'C' or higher will be designated by 'CR' and those with a 'C-' or lower will be designated by 'NC'.

ACADEMIC COLLEGES AND DIVISIONS

DIVISION OF BIBLICAL STUDIES

Arrington, C. Balzer, Blankenship, Brisben, Bruce, Burch (chair), Cha, Francis, Lanker, Raith, Robinson, Vila

Student Learning Outcomes

The Division of Biblical Studies has the following student learning outcomes for all of its programs including the 14 hours of course work in the Core Curriculum:

- 1) Cognitive outcomes: Students will increase biblical literacy, practice theological reflection, and become historically rooted and doctrinally grounded.
- 2) Affective outcomes: Students will desire Christ-like formation in all areas of life for the glory of God.
- 3) Vocational/Skill outcomes: Students will be equipped for vocational ministry and service and/or prepared for seminary/graduate studies in the fields related to their areas of study.

DEPARTMENT OF BIBLE, RELIGION, AND PHILOSOPHY (SYMBOLS: BBL, RPH)

Knowledge of the Bible is essential for effective Christian living as well as for any type of Christian work, whether one plans to attend graduate school or enter directly into ministry. The department seeks to help each student examine the scriptural basis for their faith and to guide the student in the use of foundational tools for grasping the content and application of God's Word. Students are encouraged to think carefully and be intellectually honest while affirming the place of biblically grounded Christian faith in the pursuit of truth. The Department of Bible, Religion, and Philosophy offers a major and minor in [Biblical and Theological Studies](#), a major in [Philosophy](#), and minors in [Church Leadership](#), [New Testament Greek](#), and [Religion and Philosophy](#).

Requirements for the Bachelor of Arts (B.A.) degree with major in Biblical and Theological Studies

The major in Biblical and Theological Studies is designed to equip those who are planning to enter directly into ministry or further their studies in seminary or graduate school. The curriculum provides important content in biblical studies, theology, Church history, and related disciplines. Majors in Biblical and Theological Studies must complete 12 hours of language studies, including at least two semesters of New Testament Greek.

1. [University Core Curriculum](#) - 55 hours
2. Courses Specified by this Division - 9 hours

[CMN 1213 Christian Leadership and Service](#)

[RPH 3323 Philosophy of the Christian Faith](#)

One of the following:

[BBL 34_3 A New Testament book study](#)

[BBL 36_3 An Old Testament book study](#)

3. Required Major Field Courses - 27 hours

[BBL 3363 History of the Christian Church I](#)

[BBL 3373 History of the Christian Church II](#)

[BBL 34_3 A New Testament book study](#)

[BBL 36_3 An Old Testament book study](#)

[BBL 36_3 An Old Testament book study](#)

[BBL 4473 Seminar in Biblical Studies](#)

[BBL 4493 Seminar in Theological Studies](#)

[RPH 4423 Ethics](#)

One of the following:

[BBL 4433 Christian Apologetics](#)

[RPH 4433 Philosophy of Religion](#)

4. Foreign Language - 12 hours

[BBL 2513 Elementary New Testament Greek I](#)

[BBL 2523 Elementary New Testament Greek II](#)

Select one of the following options:

Option A:

[BBL 3513 Syntax of New Testament Greek I](#)

[BBL 3523 Syntax of New Testament Greek II](#)

Option B:

[BBL 3713 Elementary Biblical Hebrew I](#)

[BBL 3723 Elementary Biblical Hebrew II](#)

Option C:

Six hours of LS-1000, LS-2000 level courses in one of Latin, French, or German

4. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for the Bachelor of Arts (B.A.) degree with major in Philosophy

When the Apostle Paul was in Athens, he spoke with Epicurean and Stoic philosophers. Christians today continue that conversation, for the sake of the Church and for the world, and some Christians have been remarkable philosophers in their own right (e.g., Augustine and Aquinas).

Philosophy resembles mathematics, in its rigor and clarity; history, in its sensitivity to people and ideas across cultures and ages; and literature, in its concern for articulate expression. Philosophy majors are well positioned to pursue any career that requires analytical reasoning, as well as graduate school in philosophy, theology, ministry, business, law, or medicine.

1. [University Core Curriculum](#) - 52 hours

The [Philosophy](#) elective is covered by one of the following program requirements: POL 3003, RPH 3003, or RPH 3103.

2. Courses Specified by this Division - 9 hours

[CMN 1213 Christian Leadership and Service](#)

[RPH 3323 Philosophy of the Christian Faith](#)

One of the following:

[BBL 34_3 A New Testament book study](#)

[BBL 36_3 An Old Testament book study](#)

3. Required Major Core Courses - 15 hours

[RPH 2323 Logic](#)

[RPH 3343 Ancient & Medieval Philosophy](#)

[RPH 3353 Modern Philosophy](#)

[RPH 4423 Ethics](#)

[RPH 4433 Philosophy of Religion](#)

4. Electives in Philosophy/Religious Studies - 12 hours (minimum)

One of the following:

[POL 3003 Political Philosophy](#)

[RPH 3003 Introduction to Philosophy](#)

[RPH 3013 Political Philosophy](#)

Nine hours from the following:

[BBL 4493 Seminar in Theological Studies](#)

[EGL 3713 Literary Theory](#)

[RPH 3533 Introduction to Islam](#)

[RPH 3543 Introduction to Hinduism and Buddhism](#)

[RPH 4481/82/83 Selected Topics in Religion/Philosophy](#)

5. Foreign Language - 12 hours

Select one of the following options:

Option A:

Twelve hours from LS-1000, LS-2000 level courses, [BBL 2513](#), [BBL 2523](#), [BBL 3513](#), [BBL 3523](#), or [HST 2111](#)

Option B:

Six hours of LS-2000 level courses

6. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Biblical and Theological Studies

The student must successfully complete a minimum of 21 hours beyond the [Core](#).

Required Courses - 15 hours

[BBL 3363 History of the Christian Church I](#)

[BBL 3373 History of the Christian Church II](#)

[BBL 34_3 A New Testament book study](#)

[BBL 36_3 An Old Testament book study](#)

One of the following:

[BBL 4473 Seminar in Biblical Studies](#)

[BBL 4493 Seminar in Theological Studies](#)

An additional six hours from among [BBL](#) or [RPH](#) courses

Requirements for minor in Church Leadership

The student must successfully complete a minimum of 18 hours beyond the [Core](#).

Required Courses - 12 hours

[BBL 3353 Theology of Worship](#)

[CMN 2263 Discipleship and Evangelism](#)

[CMN 4613 Internship in Christian Ministry](#)

One of the following:

[BBL 3223 Communicating the Christian Message](#)

[CMN 3413 Christian Formation](#)

[COM 2523 Public Speaking](#)

[ICS 2113 Intercultural Communication](#)

Six hours from the following:

[RPH 3323 Philosophy of the Christian Faith](#)

[RPH 4433 Philosophy of Religion](#)

Or six hours from among [BBL](#) or [RPH](#) courses (must be upper-division level)

Requirements for minor in New Testament Greek

The student must successfully complete a minimum of 21 hours beyond the [Core](#).

Required Courses - 15 hours

[BBL 2513 Elementary New Testament Greek I](#)

[BBL 2523 Elementary New Testament Greek II](#)

[BBL 3513 Syntax of New Testament Greek I](#)

[BBL 3523 Syntax of New Testament Greek II](#)

[LS 2173 Introduction to Linguistics](#)

Six hours from the following:

[BBL 4512 Greek Reading and Exegesis](#)

[BBL 4581/82/83 Selected Topics: New Testament Greek](#)

Requirements for minor in Religion and Philosophy

The student must successfully complete a minimum of 21 hours beyond the [Core](#).

Required Courses - 18 hours

[RPH 2323 Logic](#)

[RPH 3343 Ancient & Medieval Philosophy](#)

[RPH 3353 Modern Philosophy](#)

[RPH 4423 Ethics](#)

[RPH 4433 Philosophy of Religion](#)

One of the following:

[RPH 3533 Introduction to Islam](#)

[RPH 3543 Introduction to Hinduism and Buddhism](#)

An additional three hours from among [BBL](#) or [RPH](#) courses

DEPARTMENT OF CHRISTIAN MINISTRY

(SYMBOL: CMN)

The Department of Christian Ministry seeks to equip students with Biblical and professional knowledge, as well as practical ministry skills. The department's intent is to develop graduates who are qualified to work with children, youth, and families in a variety of domestic, professional, and international venues such as churches, inner city ministries, camps, businesses, overseas missions, and parachurch organizations.

The Christian Ministry and Formation major focuses on the study of ministry by

- providing strong biblical and theological foundations,
- integrating theories from psychology, education, and sociology, and
- emphasizing the emotional, social, physical, and spiritual needs of each person.

JBU Christian Ministry and Formation graduates are currently working as Chaplains, Child and Family Ministers, Christian School Teachers, Cross-Cultural Missionaries, Christian Camp Directors, Christian Non-Profit Directors, Worship Pastors, Youth Ministers, and Professional Counselors (after graduate school). The Christian Ministry and Formation major provides an excellent foundation for graduate work in seminary, counseling, and other related fields.

Requirements for the Bachelor of Science (B.S.) degree with major in Christian Ministry and Formation

1. [University Core Curriculum](#) - 55 hours

2. Courses Specified by this Division - 9 hours

[CMN 1213 Christian Leadership and Service](#)

[RPH 3323 Philosophy of the Christian Faith](#)

One of the following:

[BBL 34_3 A New Testament book study](#)

[BBL 36_3 An Old Testament book study](#)

3. Required Major Field Courses - 22 hours

[BBL 3583 Perspectives of the World Christian Movement](#)

[CMN 2133 Developing Relational Ministry](#)

[CMN 2263 Discipleship and Evangelism](#)

[CMN 3413 Christian Formation](#)

[CMN 4431 Introduction to Capstone in Christian Ministry](#)

[CMN 4433 Capstone in Christian Ministry](#)

[CMN 4613 Internship](#) (to be taken twice)

4. Select 9 unique hours from any one of the following concentrations – 9 hours

A. Care & Counseling

[CMN 4493 Ministering to Families across the Life Span](#)

[FAM 3133 Marriage & Family Living](#)

[FAM 4253 Family Communication](#)

[PSY 2233 Theories of Counseling](#)

[PSY 4213 Abnormal Psychology](#)

B. Chaplaincy

[BBL 3223 Communicating the Christian Message](#)

[CMN 4493 Ministering to Families across the Life Span](#)

[FAM 3133 Marriage & Family Living](#)

[ICS 2113 Intercultural Communication](#)

[PSY 2243 Introduction to Therapeutic Interviewing](#)

C. Child and Family

[CMN 3273 Critical Concerns with Children](#)

[CMN 4493 Ministering to Families across the Life Span](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[FAM 3133 Marriage & Family Living](#)

[FAM 3223 Principles of Effective Parenting](#)

D. Christian Schooling

[CMN 4493 Ministering to Families across the Life Span](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 2713 Differentiated Learning](#)

[ED 3123 Framework for Teaching 1](#)

[ED 4901 Selected Topics: Christian School Education](#)

E. Cross-Cultural

[BBL 3223 Communicating the Christian Message](#)

[CMN 4493 Ministering to Families across the Life Span](#)

[ICS 2113 Intercultural Communication](#)

[ICS 2123 Cultural Anthropology](#)

[ICS 4133 Intercultural Leadership Skills](#)

F. Experiential Education

[CMN 2373 Principles and Practices of Experiential Education](#)

[CMN 2383 Outdoor Living Skills](#)

[CMN 3213 Camp Leadership & Management](#)

[CMN 3153 Philosophy and Methods of Outdoor Education](#)

G. Leadership

[BBL 3223 Communicating the Christian Message](#)

[LDR 2563 Leadership Competencies](#)

[LDR 3563 Organizational Leadership](#)

[PSY 3423 Social Psychology](#)

H. Worship

[BBL 3223 Communicating the Christian Message](#)

[BBL 3353 Theology of Worship](#)

[MUS 2503 Understanding Worship Arts I: Orientation](#)

[MUS 2513 Understanding Worship Arts II: Materials and Methods](#)

I. Youth

[CMN 2463 Adolescent Culture](#)

[BBL 3223 Communicating the Christian Message](#)

[CMN 3313 Foundations and Practice of Youth Ministry](#)

[CMN 4443 Critical Concerns with Adolescents](#)

5. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Christian Ministry and Formation

The student must successfully complete a minimum of 19 hours beyond the [Core](#).

[BBL 3583 Perspectives of the World Christian Movement](#)

[CMN 1213 Christian Leadership and Service](#)

[CMN 2133 Developing Relational Ministry](#)

[CMN 2263 Discipleship and Evangelism](#)

[CMN 3413 Christian Formation](#)

[CMN 4431 Introduction to Capstone in Christian Ministry](#)

[CMN 4433 Capstone in Christian Ministry](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Outdoor Leadership Ministries

The major in Outdoor Leadership Ministries is designed to produce outdoor ministry educators and leaders equipped with sound judgment, appropriate technical ability, and effective teaching and facilitation competencies to create safe outdoor learning environments in which to nurture spiritual formation. Ministry opportunities include both national and international settings as camp program directors, wilderness guides and instructors, experiential learning and challenge course facilitators, outdoor educators, conference and retreat programmers, and leaders for children-, youth-, and family-serving organizations such as YMCA, Campfire, Scouting, and Young Life. Opportunities to earn

certifications in Wilderness First Responder, Leave No Trace, Outdoor Leadership, and Outdoor Education are incorporated into the curriculum.

1. [University Core Curriculum](#) - 55 hours

2. Courses Specified by this Division - 9 hours

[CMN 1213 Christian Leadership and Service](#)

[RPH 3323 Philosophy of the Christian Faith](#)

One of the following:

[BBL 34 3 A New Testament book study](#)

[BBL 36 3 Old Testament book study](#)

3. Required Major Field Courses - 34 hours

[CMN 2223 Challenge Course Programs and Management](#)

[CMN 2263 Discipleship and Evangelism](#)

[CMN 2283 Outdoor Recreation Skills](#)

[CMN 2373 Principles and Practices of Experiential Education](#)

[CMN 2383 Outdoor Living Skills](#)

[CMN 3153 Philosophy and Methods of Outdoor Education](#)

[CMN 3213 Camp Leadership and Management](#)

[CMN 3413 Christian Formation](#)

[CMN 4113 Wilderness First Responder](#)

[CMN 4431 Introduction to Capstone in Christian Ministry](#)

[CMN 4433 Capstone in Christian Ministry](#)

[FAM 4443 Critical Concerns with Adolescents](#)

4. Supporting Courses: Skill Certifications - 5 hours

[CMN 4471 Challenge Course Instructor 1](#)

[CMN 4491 Challenge Course Instructor 2](#)

Optional Skill Certifications:

[CMN 4481 Selected Topics – Rock Climbing](#)

[CMN 4481 Selected Topics – Canoeing](#)

[CMN 4481 Selected Topics – Kayaking](#)

[CMN 4481 Selected Topics – Swift Water Rescue](#)

[CMN 4481 Selected Topics – Search and Rescue](#)

[CMN 4481 Selected Topics – Master Naturalist](#)

[CMN 4481 Selected Topics – Mountain Biking](#)

5. Internship - 12 hours

[CMN 4611-4614 Internship](#)

6. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Outdoor Leadership Ministries

The student must successfully complete a minimum of 18 hours beyond the [Core](#).

Required courses – 14 hours

[CMN 2223 Challenge Course Programs and Management](#)

[CMN 2373 Principles and Practices of Experiential Education](#)

[CMN 2383 Outdoor Living Skills](#)

[CMN 4471 Challenge Course Instructor 1](#)

[CMN 4491 Challenge Course Instructor 2](#)

[CMN 4613 Internship](#)

One of the following:

[CMN 3213 Camp Leadership and Management](#)

[KIN 4443 Management in Health Sport](#)

One of the following:

[CMN 4481 Selected Topics - Rock climbing](#)

[CMN 4481 Selected Topics - Canoeing](#)

[CMN 4481 Selected Topics - Kayaking](#)

[CMN 4481 Selected Topics - Swift Water Rescue](#)

[CMN 4481 Selected Topics - Search and Rescue](#)

[CMN 4481 Selected Topics - Master Naturalist](#)

[CMN 4481 Selected Topics - Mountain Biking](#)

DEPARTMENT OF INTERCULTURAL STUDIES

(SYMBOL: ICS)

The Intercultural Studies Program is designed for students focusing on cross-cultural careers in missions, translation, community development, international business, and the teaching of English as a second language.

The Intercultural Studies (ICS) programs require a minor field, and students are encouraged to diversify their academic experience by adding a minor that enhances the ICS degree, in keeping with their vocational goals. For example, ICS majors might choose the TESOL minor if they want to teach English in an international setting.

Requirements for the Bachelor of Arts (B.A.) degree with major in Intercultural Studies

1. [University Core Curriculum](#) - 49 hours

The [Global Studies](#) elective is covered by either RPH 3533 or RPH 3543, and the [Social Science](#) elective is covered by ICS 2123 in the program requirements.

2. Courses Specified by this Division - 9 hours

[CMN 1213 Christian Leadership and Service](#)

[RPH 3323 Philosophy of the Christian Faith](#)¹

One of the following:

[BBL 34 3 A New Testament book study](#)

[BBL 36 3 An Old Testament book study](#)

3. Intercultural Studies Major Core - 21 hours

[BBL 3583 Perspectives on the World Christian Movement](#)

[ICS 2113 Intercultural Communication](#)

[ICS 2123 Cultural Anthropology](#)

[ICS 3133 Cultural Research Methods](#)

[ICS 4123 Intercultural Internship](#)

[ICS 4183 Cultural Values Seminar](#)

One of the following:

[RPH 3533 Introduction to Islam](#)

[RPH 3543 Introduction to Hinduism and Buddhism](#)

4. One of the following Concentrations - 9 hours

A. International Studies

[ICS 4133 Intercultural Leadership Skills](#)

[POL 3353 International Relations](#)

[SST 1143 World Regional Geography](#)

B. Intercultural Ministries¹

[CMN 2263 Discipleship and Evangelism](#)

[ICS 3243 Principles and Philosophy of Community Development](#)

[ICS 4133 Intercultural Leadership Skills](#)

C. Community Development

[ICS 3243 Principles and Philosophy of Community Development](#)

[ICS 3263 Theory and Practice of Appropriate Technology I](#)

[ICS 3283 Theory and Practice of Appropriate Technology II](#)

¹ICS Majors in the Intercultural Ministries concentration may substitute RPH 4433 Philosophy of Religion for RPH 3323 in the Courses Specified by this Division.

5. Foreign Language - 12 hours

Select one of the following options:

Option A:

Twelve hours from LS-1000, LS-2000 level courses or LS 2173

With advisor approval, students may use courses from [BBL 2513](#), [BBL 2523](#), [BBL 3513](#), or [BBL 3523](#) to satisfy all or part of the requirement

Option B:

Six hours of LS-2000 level courses

6. Minor in [TESOL](#) or other approved minor

7. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Intercultural Studies

1. [University Core Curriculum](#) - 49 hours

The [Global Studies](#) elective is covered by either RPH 3533 or RPH 3543 and the [Social Science](#) elective is covered by ICS 2123 in the program requirements.

2. Courses Specified by this Division - 9 hours

[CMN 1213 Christian Leadership and Service](#)

[RPH 3323 Philosophy of the Christian Faith](#)¹

One of the following:

[BBL 34 3 A New Testament book study](#)

[BBL 36 3 An Old Testament book study](#)

3. Intercultural Studies Major Core - 21 hours

[BBL 3583 Perspectives on the World Christian Movement](#)

[ICS 2113 Intercultural Communication](#)

[ICS 2123 Cultural Anthropology](#)

[ICS 3133 Cultural Research Methods](#)

[ICS 4123 Intercultural Internship](#)

[ICS 4183 Cultural Values Seminar](#)

One of the following:

[RPH 3533 Introduction to Islam](#)

[RPH 3543 Introduction to Hinduism and Buddhism](#)

4. One of the following Concentrations - 9 hours

A. International Studies

[ICS 4133 Intercultural Leadership Skills](#)

[POL 3353 International Relations](#)

[SST 1143 World Regional Geography](#)

B. Intercultural Ministries¹

[CMN 2263 Discipleship and Evangelism](#)

[ICS 3243 Principles and Philosophy of Community Development](#)

[ICS 4133 Intercultural Leadership Skills](#)

C. Community Development

[ICS 3243 Principles and Philosophy of Community Development](#)

[ICS 3263 Theory and Practice of Appropriate Technology I](#)

[ICS 3283 Theory and Practice of Appropriate Technology II](#)

¹ICS Majors in the Intercultural Ministries Concentration may substitute RPH 4433 Philosophy of Religion for RPH 3323 in the Courses Specified by this Division.

5. Minor in [TESOL](#) or other approved minor

6. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Intercultural Studies

A student must successfully complete a minimum of 18 hours beyond the [Core](#).

Required Courses - 9 hours

[BBL 3583 Perspectives on the World Christian Movement](#)

[ICS 2113 Intercultural Communication](#)

[ICS 2123 Cultural Anthropology](#)

One of the following:

[ICS 3243 Principles and Philosophy of Community Development](#)

[ICS 4133 Intercultural Leadership Skills](#)

Two of the following:

[CMN 2263 Discipleship and Evangelism](#)

[ICS 3263 Theory and Practice of Appropriate Technology I*](#)

[ICS 3283 Theory and Practice of Appropriate Technology II*](#)

[FAM 4113 Intercultural Family Seminar](#)

[LS 2173 Introduction to Linguistics](#)

[RPH 3533 Introduction to Islam](#)

[RPH 3543 Introduction to Hinduism and Buddhism](#)

* Taught during one four-week May term at the Institute for Biblical Community Development in Oklahoma.

DONALD G. SODERQUIST COLLEGE OF BUSINESS

Anderson, Fast, Heinrich, Ladner, McCollum, Rothfuss, Suarez, Togami, Verdery, Waldron, Walenciak (Dean)

The Donald G. Soderquist College of Business at John Brown University consists of the Department of Business (Undergraduate), the Department of Business Degree Completion, and the Department of Graduate Business Programs. The College of Business has adopted the following vision, mission, and core values, which have been embraced by each Department within the College.

Vision of the College of Business

To be nationally recognized as a leader in Christian higher education in business through the accomplishments of our students, our contributions to the academy and industry, and our impact on the world.

Mission of the College of Business

We provide challenging, practical business education from a Christian perspective, equipping students to succeed in their lifework and impact their world.

Core Values of the College of Business

Christian Faith - *We are committed to John Brown University Articles of Faith*

Relationships - *We value our relationship with God which guides collaboration, respect, and trust among all*

Teaching and Learning - *We are passionate about excellence in teaching and lifelong learning*

Global Focus - *We value global perspectives and experiences that stretch our understanding of business and provide opportunities to impact the world*

Intellectual Curiosity - *We value an active investigative pursuit of knowledge*

Gratitude - *We promote a culture of being thankful to God and each other*

Program Level Outcomes and Assessment of Student Learning

The Department of Business is committed to the following nine program level outcomes. These outcomes reflect what is desired for all graduates of our undergraduate business program.

COMMUNICATION—Communicate effectively in various contexts using diverse media.

CRITICAL THINKING—Conceptualize, apply, analyze, synthesize, and evaluate information to reach answers and conclusions.

BUSINESS SKILLS AND KNOWLEDGE—Demonstrate relevant skills and knowledge necessary for professional growth and success.

LEADERSHIP AND TEAMS—Understand the servant leadership model and be able to lead individuals and groups to perform effectively.

ETHICS AND LEGAL ISSUES—Anticipate, identify, and personally resolve legal and ethical issues and behaviors.

QUANTITATIVE AND ANALYTICAL—Apply the quantitative skills necessary to address relevant questions, perform various analyses, understand and apply results, and assess impact.

INTERNATIONAL AND GLOBAL—Graduates will understand culturally diverse environments.

INFORMATION AND TECHNOLOGY—Understand and use information and technology in effective ways.

CHRISTIAN WORLDVIEW—Understand the Christian worldview and its application to their personal and professional lives.

The College of Business is committed to the assessment of student learning and to the continuous improvement of its programs. The undergraduate Department of Business uses formative, summative, and comparative assessments of student learning to ensure that each program is effectively preparing students to be responsible business professionals in the world they are entering. Assessments include internship evaluations, portfolios, capstone reviews, pre- and post-program surveys, competitions, and embedded assessments. Faculty meet regularly with the dean to review and assess outcomes measures, identify issues, define areas of opportunity, and revise the program accordingly.

The Department of Business offers five undergraduate degree programs in a traditional format leading to the Bachelor of Science (B.S.) [Accounting](#), [Business Administration](#), [International Business](#), [Management](#), and [Marketing](#). Students may choose from the following areas as minor fields of study: [Accounting](#), [Applied Programming in Business](#), [Business Administration](#), [Economics](#), Entrepreneurship and Innovation, [International Business](#), [Leadership Studies](#), [Management](#), [Marketing](#), and [Professional Accounting Development](#).

Graduation Requirements

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor to be eligible for graduation.

Accreditation

All business degree programs of the College of Business are accredited by the Accreditation Council for Business Schools and Programs (ACBSP), www.acbsp.org, (913) 339-9356.

Preparation for the MBA Degree

The undergraduate degree programs at John Brown University are excellent preparation for JBU's Master of Business Administration (MBA) degree. Students planning to enter graduate studies at another university should check the specific prerequisite requirements of that program. JBU offers an MBA degree with emphases in International Business or Leadership and Ethics, and also a MS degree in Leadership and Ethics. All master level programs are described on the web site www.jbu.edu/grad/business.

ACCOUNTING

(SYMBOL: ATG)

The Accounting degree provides students with an understanding of accounting skills and business fundamentals. Emphasis is placed on developing analytical and problem solving capabilities in businesses. Such skills provide a foundation for students who seek a career in professional accounting. This degree can also help equip students in other careers which require analytical skills, such as law, FBI, or IRS services, and not-for-profit and mission organizations.

Accounting minor - An accounting minor will be extremely valuable to students with any other business degree. Students majoring in areas outside the business field may find the accounting minor to be a marketable addition to their plan of study.

Professional Accounting Development minor - Students interested in practicing as professional accountants are strongly encouraged to declare the Professional Accounting Development minor. This minor is appropriate for those who desire to practice as a Certified Internal Auditor (CIA), a Certified Management Accountant (CMA), or a Certified Public Accountant (CPA). Since the requirements for the CPA exam vary from state to state, students wishing to take this exam should consult with the State Board of Accountancy where the exam will be taken. Most states require 150 semester hours and some require a year or two of experience. The Professional Accounting Development minor is flexible to help students meet the requirements of various states.

The baccalaureate program in Accounting requires 124 minimum total semester hours including courses from three categories: 1) Core Curriculum, 2) the required major field courses, and 3) a minor field of study or electives sufficient to achieve the required minimum total hours.

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor.

Requirements for the Bachelor of Science (B.S.) degree with major in Accounting

1. [University Core Curriculum](#) - 49 hours

The [Mathematics](#) elective is covered by BUS 2193 and the [Social Science](#) elective is covered by either ECN 2113 or ECN 2123 in the program requirements.

2. Required Major Field Courses - 57 hours

[ATG 2173 Principles of Financial Accounting](#)

[ATG 2183 Principles of Managerial Accounting](#)

[ATG 3103 Intermediate Accounting I](#)

[ATG 3113 Intermediate Accounting II](#)

[ATG 3990 Accounting Internship](#)

[ATG 4153 Auditing and Attestation Services](#)

[ATG 4163 Advanced Accounting](#)

[BUS 1003 Business Foundations](#)

[BUS 1123 Business Communication](#)

[BUS 2163 Business Mathematics](#)

[BUS 2193 Business Statistics](#)

[BUS 3113 Spreadsheet Analytics](#)

[BUS 4173 Business Finance](#)

[BUS 4253 Business Law and Ethics](#)

[BUS 4993 Strategic Management](#)

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[MGT 2173 Principles of Management](#)

[MKT 2143 Principles of Marketing](#)

[MTH 1113 College Algebra](#)

3. Minor field or electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Accounting

Students (non-Accounting majors) must successfully complete a minimum of 21 hours.

Required Courses - 15 hours

[ATG 2173 Principles of Financial Accounting](#)

[ATG 2183 Principles of Managerial Accounting](#)

[ATG 3103 Intermediate Accounting I](#)

[ATG 3113 Intermediate Accounting II](#)

[BUS 3113 Spreadsheet Analytics](#)

An additional six hours of upper-division electives from [ATG](#)

Requirements for minor in Professional Accounting Development (Accounting majors only)

Students must successfully complete a minimum of 21 hours, in addition to those taken in the major.

Required courses – 15 hours

[ATG 3153 Federal Income Tax Basics](#)

[ATG 3163 Advanced Federal Income Tax Topics](#)

[ATG 3173 Cost Accounting](#)

[ATG 3183 Government and Not-for-Profit Accounting](#)

[ATG 3213 Managerial Information Systems](#)

An additional six hours from the Department of Business

[View 4-Year Plan](#)

Students are encouraged to select courses that will satisfy the CPA exam requirements in the state where licensure will be sought.

BUSINESS ADMINISTRATION (SYMBOL: BUS, ENT)

The Business Administration degree is a versatile program appropriate for those who wish to operate their own business, enter the field of business as an employee of an existing firm, pursue a masters or law degree, or serve in church administration or other nonprofit administration. It is a broad platform of business studies that prepares students for careers in various areas, and it is particularly valuable in combination with studies (such as a minor field) in a technical area, such as digital media, cinema, or graphic design. Business administration is also a strong complement to other technical programs of

study such as engineering, computer science, or information systems. Students may also choose Business Administration and Applied Business Programming as a minor field of study.

The baccalaureate program in Business Administration requires 124 minimum total semester hours including courses from three categories: (1) the Core Curriculum, (2) the required major field courses, and (3) a minor field of study or electives sufficient to achieve the required minimum total hours.

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor.

Requirements for the Bachelor of Science (B.S.) degree with major in Business Administration

1. [University Core Curriculum](#) - 46 hours

The [Mathematics](#) elective is covered by BUS 2193, the [Social Science](#) elective is covered by either ECN 2113 or ECN 2123, and the [Global Studies](#) elective is covered by ECN 4103 or ECN 4423 in the program requirements.

2. Required Major Field Courses - 57 hours

[ATG 2173 Principles of Financial Accounting](#)

[ATG 2183 Principles of Managerial Accounting](#)

[BUS 1003 Business Foundations](#)

[BUS 1123 Business Communication](#)

[BUS 2163 Business Mathematics](#)

[BUS 2193 Business Statistics](#)

[BUS 3113 Spreadsheet Analytics](#)

[BUS 3990 Internship](#)

[BUS 4173 Business Finance](#)

[BUS 4253 Business Law and Ethics](#)

[BUS 4993 Strategic Management](#)

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[LDR 2993 Entrepreneurship in Action \(ENACTUS\)](#)

[LDR 3563 Organizational Leadership](#)

[MGT 2173 Principles of Management](#)

[MGT 3513 Human Resource Management](#)

[MKT 2143 Principles of Marketing](#)

[MTH 1113 College Algebra](#)

One of the following:

[ECN 4103 International Economics](#)

[ECN 4423 Economic Growth and Development](#)

3. Minor field or electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Business Administration

The student must successfully complete a minimum of 21 hours.

Required Courses - 6 hours

[ECN 2113 Principles of Microeconomics](#)

One of the following:

[ATG 1163 Accounting for Decision Making](#)

[ATG 2173 Principles of Financial Accounting](#)

An additional nine hours selected from [BUS](#)

A minimum of six additional hours from the Department of Business

At least six hours must be upper-level major courses

Requirements for minor in Applied Programming in Business

The student must successfully complete a minimum of 21 hours.

Required Courses - 18 hours

[ATG 2173 Principles of Financial Accounting](#)

[ATG 2183 Principles of Managerial Accounting](#)

[BUS 3113 Spreadsheet Analytics](#)

[CS 1113 Introduction to Computing](#)

[EN 3233 Advanced Computer Programming](#)

[MGT 3723 Project Management](#)

One of the following:

[BUS 1123 Business Communication](#)

3 hours EN or CS course work as advised

Requirements for minor in Entrepreneurship and Innovation

Learning Outcomes

Students who successfully complete this minor will:

1. Understand the process of constructing financial statements for a new venture.
2. Construct and analyze a comprehensive new venture plan while working in dynamic teams and growing their professional networks.
3. Discover opportunities and formulate viable business models centered on creating unique value for customers.
4. Demonstrate the ability to prioritize the riskiest aspects of an idea and systematically reduce those risks by an iterative process of testing and learning.
5. Justify the ways in which failures are an important dimension of learning on the path to successfully launching a new venture.
6. Defend the importance of the role the Christian entrepreneur plays in God's work redeeming humanity and all of creation.

The student must successfully complete a minimum of 21 hours.

[BUS 1123 Business Communication](#)

[ENT 1003 Methods and Tools for Entrepreneurs](#)

[ENT 2003 New Venture Financial Management](#)

[ENT 3003 Building Innovative Teams & Cultures](#)

[ENT 4113 Market Discovery and Validation](#)

[ENT 4993 Innovation Launch Lab](#)

[MKT 4123 Integrated Marketing Communications](#)

ECONOMICS

(SYMBOL: ECN)

Economics is the social science of human choice. From individual lives to entire countries, our choices direct and determine our future. The Economics minor is designed to acquaint students with the economic processes of modern societies, to provide them with a Christian perspective and framework to approach contemporary economic issues and problems, and to foster an ability to exercise good judgment with regard to societal issues.

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor.

Requirements for minor in Economics

The student must successfully complete a minimum of 21 hours.

Required Courses - 9 hours

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[ECN 4993 Senior Research Project](#)

An additional 12 hours of electives from [ECN](#). At least three hours must be upper-division course work.

INTERNATIONAL BUSINESS

(SYMBOL: INT)

The International Business degree is a broad program of administrative and international studies designed to prepare students to function competently in international and multicultural business contexts. In addition to the campus curriculum, students have the opportunity to participate in overseas study and international internships. This program is enhanced by JBU's rich tradition of international student diversity.

The Bachelor of Science degree with a major in International Business requires 124 minimum total semester hours including courses from three categories: (1) the Core Curriculum, (2) the required

major field courses, and (3) a minor field of study or electives sufficient to achieve the required minimum total hours.

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor.

International Business may also be selected as a minor field of study.

Requirements for the Bachelor of Science (B.S.) degree with major in International Business

1. [University Core Curriculum](#) - 46 hours

The [Mathematics](#) elective is covered by BUS 2193, the [Social Science](#) elective is covered by either ECN 2113 or ECN 2123, and the [Global Studies](#) elective is covered by either INT 2183 or INT 3153 in the program requirements.

2. Required Major Field Courses - 57 hours

[ATG 2173 Principles of Financial Accounting](#)

[ATG 2183 Principles of Managerial Accounting](#)

[BUS 1003 Business Foundations](#)

[BUS 1123 Business Communication](#)

[BUS 2193 Business Statistics](#)

[BUS 3113 Spreadsheet Analytics](#)

[BUS 3990 Internship](#)

[BUS 4173 Business Finance](#)

[BUS 4253 Business Law and Ethics](#)

[BUS 4993 Strategic Management](#)

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[INT 2183 International Management](#)

[INT 3153 International Marketing](#)

[INT 3173 International Finance](#)

[MKT 2143 Principles of Marketing](#)

[MTH 1113 College Algebra](#)

One of the following:

[ECN 4103 International Economics](#)

[ECN 4423 Economic Growth and Development](#)

One of the following options - 6 hours:

1. International Experience Track:

Additional six hours in approved Study Abroad

2. Global Perspectives Track:

Additional six hours of approved interdisciplinary electives selected from the following:

[BBL 3583 Perspectives on the World Christian Movement](#)

[ICS 2113 Intercultural Communication](#)

[ICS 3243 Principles and Philosophy of Community Development](#)

[ICS 4133 Intercultural Leadership Skills](#)

3 hours of Language studies

3. Language Track:

Additional six hours of approved Language studies

3. Minor field or electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in International Business

The student must successfully complete a minimum of 21 hours.

Required Courses - 6 hours

[ECN 2113 Principles of Microeconomics](#)

One of the following:

[ATG 1163 Accounting for Decision Making](#)

[ATG 2173 Principles of Financial Accounting](#)

An additional nine hours of [INT](#) courses

A minimum of six additional hours from [BUS](#), [ECN](#), or [INT](#)

At least six hours must be upper-level major courses

LEADERSHIP STUDIES

(SYMBOL: LDR)

The Christian community is uniquely positioned to address the need for leadership in the world today. The Department of Business offers a Leadership Studies minor available and applicable to a wide variety of majors at John Brown University. It is designed to be cross-disciplinary in its approach, well-grounded in academic thought, and practical in its application.

The Leadership Studies minor offers courses organized for maximum student benefit and flexibility covering the discipline of leadership at its core, its competencies, and in its specific academic and professional contexts.

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor.

Requirements for minor in Leadership Studies

The student must successfully complete a minimum of 19 hours.

Required courses - 10 hours

[LDR 2552 Service Learning](#)

[LDR 2563 Leadership Competencies](#)

[LDR 3563 Organizational Leadership](#)

[LDR 3652 Leader Scholars Institute Capstone Practicum](#)

Nine hours from among the following:

[BUS 4253 Business Law and Ethics](#)

[CMN 3213 Camp Leadership and Management](#)

[COM 2523 Public Speaking](#)

[COM 3453 Social Movements](#)

[COM 3703 Leadership and Media Management](#)

[EN 4403 Engineering Management](#)

[HST 3423 Leaders in History](#)

[ICS 4133 Intercultural Leadership Skills](#)

[LDR 1511/21/31/41 Leadership Colloquium](#)

[LDR 2121 Student Leadership](#)

[LDR 2991/92/93 Entrepreneurship in Action \(ENACTUS\)](#)

[LDR 3313 Student Mentoring Strategies and Experience](#)

[MGT 3513 Human Resource Management](#)

[NUR 4214 Concepts of Nursing Leadership](#)

[POL 3143 The American Presidency](#)

[PSY 3423 Social Psychology](#)

[RPH 4423 Ethics](#)

Leader Scholars Institute

The Leader Scholars Institute (LSI) at John Brown University is an interdisciplinary community of leader scholars committed to the academic and applied study of leadership. One of the program's distinctive is the development of a learning community focused around leadership. The program supports participants through active and reflective leadership learning both in and out of the classroom. Students in the Leader Scholars Institute are required to take the courses listed below; additionally, academic credit can be earned for participation in the program. LSI students complete their experience with graduation honors and official notation on their transcript.

[LDR 1511/21/31/41 Leadership Colloquium](#) (optional)

[LDR 2563 Leadership Competencies](#)

[LDR 3652 Leader Scholars Institution Capstone Practicum](#)

MANAGEMENT

(SYMBOL: MGT)

The Management major prepares students for careers as professional managers in corporations, public institutions, not-for-profit organizations, and small businesses. In addition, the program provides a foundation for students who want to pursue graduate degrees in business and public administration, law, and the social sciences. The curriculum gives students a broad exposure to the functional areas of business, the environments in which organizations must operate, and knowledge of important behavioral dimensions of management. Students may select Management as a major or minor field of study.

The baccalaureate program in Management requires 124 minimum total semester hours including courses from three categories: (1) the Core Curriculum, (2) the required major field courses, and (3) a minor field of study or electives sufficient to achieve the required minimum total hours.

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor.

Requirements for the Bachelor of Science (B.S.) degree with major in Management

1. [University Core Curriculum](#) - 46 hours

The [Mathematics](#) elective is covered by BUS 2193, the [Social Science](#) elective is covered by either ECN 2113 or ECN 2123, and the [Global Studies](#) elective is covered by MGT 2183 in the program requirements.

2. Required Major Field Courses - 57 hours

[ATG 2173 Financial Accounting](#)

[ATG 2183 Managerial Accounting](#)

[BUS 1003 Business Foundations](#)

[BUS 1123 Business Communication](#)

[BUS 2193 Business Statistics](#)

[BUS 3113 Spreadsheet Analytics](#)

[BUS 3990 Internship](#)

[BUS 4173 Business Finance](#)

[BUS 4253 Business Law and Ethics](#)

[BUS 4993 Strategic Management](#)

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[ECN 3213 Managerial Economics](#)

[LDR 3563 Organizational Leadership](#)

[MGT 2173 Principles of Management](#)

[MGT 2183 International Management](#)

[MGT 3513 Human Resource Management](#)

[MGT 3723 Project Management](#)

[MKT 2143 Principles of Marketing](#)

[MTH 1113 College Algebra](#)

3. Minor field or electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Management

The student must successfully complete a minimum of 21 hours.

[ATG 1163 Accounting for Decision Making](#)

[LDR 3563 Organizational Leadership](#)

[MGT 2173 Principles of Management](#)

[MGT 2183 International Management](#)

[MGT/LDR 2993 Entrepreneurship in Action \(ENACTUS\)](#)

[MGT 3513 Human Resource Management](#)

[MGT 3723 Project Management](#)

MARKETING

(SYMBOL: MKT)

Northwest Arkansas provides an excellent learning laboratory for the study of contemporary marketing and retailing theory and practice. Marketing students have the opportunity to learn global

perspectives and processes from those who are currently leading change in the field. Students may choose Marketing as a major or minor field of study.

The baccalaureate program in Marketing requires 124 minimum total semester hours including courses from three categories: (1) the Core Curriculum, (2) the required major field courses, and (3) a minor field of study or electives sufficient to achieve the required minimum total hours.

Students must achieve a cumulative grade point average of 2.25 in all Department of Business course work and in each minor.

Requirements for the Bachelor of Science (B.S.) degree with a major in Marketing

1. [University Core Curriculum](#) - 46 hours

The [Mathematics](#) elective is covered by BUS 2193, the [Social Science](#) elective is covered by either ECN 2113 or ECN 2123, and the [Global Studies](#) elective is covered by MGT 3153 in the program requirements.

2. Required Major Field Courses - 57 hours

[ATG 2173 Financial Accounting](#)

[ATG 2183 Managerial Accounting](#)

[BUS 1003 Business Foundations](#)

[BUS 1123 Business Communication](#)

[BUS 2193 Business Statistics](#)

[BUS 3113 Spreadsheet Analytics](#)

[BUS 3990 Internship](#)

[BUS 4173 Business Finance](#)

[BUS 4253 Business Law and Ethics](#)

[BUS 4993 Strategic Management](#)

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[MKT 2143 Principles of Marketing](#)

[MKT 3133 Retailing](#)

[MKT 3163 Consumer Behavior](#)

[MKT 3883 Digital Marketing](#)

[MKT 4113 Marketing Research](#)

[MKT 4123 Integrated Marketing Communications](#)

[MKT 4173 Marketing Strategies](#)

[MTH 1113 College Algebra](#)

3. Minor field or electives as necessary to complete minimum total hours

Students are encouraged to minor in [Communication](#), [Graphic Design](#), or [Digital Cinema](#).

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Marketing

The student must successfully complete a minimum of 21 hours.

Required Courses - 15 hours

[BUS 2193 Business Statistics](#) (or other approved statistics course)

[MKT 2143 Principles of Marketing](#)

[MKT 4113 Marketing Research](#)

[MKT 4123 Integrated Marketing Communications](#)

[MKT 4173 Marketing Strategies](#)

Two of the following:

[MKT 3133 Retailing](#)

[MKT 3153 International Marketing](#)

[MKT 3163 Consumer Behavior](#)

[MKT 3883 Digital Marketing](#)

DIVISION OF COMMUNICATION AND FINE ARTS

Agee, Andrus, Armstrong, Dromi, Edwards, Goehner, Holland, Hollingsworth, Martin, Peer, Pohle, M. Smith, P. Smith, Snediker, Whitley, J. Wubbena, T. Wubbena (chair)

The Division of Communication and Fine Arts is comprised of the Departments of Communication, Music, and Visual Arts. Bachelor's degrees are offered in [Art and Illustration](#), [Communication](#), [Digital Cinema](#), [General Music](#), [Graphic Design](#), [Music](#), [Music Education](#), [Photography](#), and [Worship Arts](#). Minors are offered in all areas, as well as [Drama](#).

The mission of the Division of Communication and Fine Arts is to teach, nurture, and model excellence and integrity in creativity, scholarship, spiritual formation, and professional development.

DEPARTMENT OF COMMUNICATION

(SYMBOL: COM)

The mission of the Department of Communication is to produce tomorrow's industry professionals, civic leaders, and lifelong learners who are dedicated to serving and making a difference in a domestic and global context. The department encourages ways of communicating that are rooted in an acceptance and appreciation of others.

Student Learning Outcomes:

The Department of Communication has identified the following seven student learning outcomes:

1. Students will be able to think clearly, critically, and creatively in response to communication problems.
2. Students will express ideas in oral, written, and mediated messages that are coherent, persuasive, and ethical.
3. Students will demonstrate the communication skills necessary to engage in personal, professional, civic, and social relationships.
4. Students will adapt oral, visual, written, and mediated messages to diverse audiences across multiple platforms.
5. Students will analyze and evaluate verbal and nonverbal messages in differing social, political, and cultural contexts in order to assess their effectiveness.
6. Students will use current technology related to the communication field.
7. Students will work productively in groups and teams on a range of communication projects.

The Department of Communication celebrates the centrality of communication in human life as well as our students' potential to positively influence society through the effective practice of communication across many contexts and through multiple media.

Varying contexts require different communication methods and styles. Department core courses teach human and mediated communication in a variety of contexts and effectively combine theory with practice. Students are encouraged to pursue their own communication calling as they seek to impact an increasingly diverse and global society.

Communication majors are well-prepared for effective work in media industries, business, non-profit organizations and ministries that require excellent communication. Strong written, interpersonal, oral, and media production skills are crucial for successful communication professionals. Creative Christian leadership is emphasized to prepare students for careers in both faith-based and secular communication fields. Local, national, and international internship and mission trip opportunities allow participating students to further develop a global perspective.

Additionally, students in the Department of Communication are actively engaged in the John Brown University community through co-curricular activities. JBU Communication students produce the award-winning student newspaper, *The Threefold Advocate*, *Eagle Break* and *The Neshier*. Students work with online radio station MyPositiveEdge.com, and at KLRC 90.9 FM, JBU's professional radio station. Golden Eagle Television Productions offers students the opportunity to produce live video coverage of JBU home basketball games. The department also sponsors speech and debate competition through its award-winning forensics team.

Emphasis Options

Majors may shape their program with an advisor or choose to concentrate their study within one of the following areas of emphasis:

The **Digital Journalism & Civic Engagement Emphasis** offers students a chance to learn writing, information gathering and reporting, formatting, editing, anchoring, and producing for both traditional digital and media platforms. Among the tools that students use to report live are some of the latest technologies, such as Twitter© and Skype©. Students also study critical issues faced in today's complex communications environment. "Hands-on" experience is emphasized in the digital journalism curriculum.

The **Public Relations Emphasis** provides students with instruction in the principles, processes, skills, and management of public relations programs designed to attain or maintain inter-organizational or social accord. Students learn both the basic skills of writing, graphics, and oral presentation, as well as the managerial functions of planning, research, campaign development, and evaluation. The program prepares students with a solid ethical foundation, an awareness of diversity and multiculturalism, and an understanding of the use of social media for strategic engagement with an organization's many audiences or publics.

The **Media Production Emphasis** teaches students the production skills and industry knowledge necessary to impact society through the development of compelling media programming. This emphasis empowers students to become successful cultural leaders in the burgeoning business of creating and distributing media content. Essential industry courses expand beyond production to teach programming strategies, law, sales, and entrepreneurship.

The **Media Communication Emphasis** provides students with the opportunity to become excellent communicators who can speak, write, and use media in a highly effective manner. Outstanding communication skills prepare students to work in a wide variety of contexts such as business, media, ministry, and non-profit organizations. Generalists choose courses from the three department emphases (in consultation with an advisor) to build a program that best suits their goals in the communication field. Communication majors also choose department co-curricular activities according to their interests.

Requirements for the Bachelor of Science (B.S.) degree with major in Communication

1. [University Core Curriculum](#) - 55 hours

2. Communication Department Core - 18 hours

[COM 1173 Faith, Media, and Calling](#)

[COM 2123 News Writing and Reporting](#)

[COM 2433 Diversity and Media Issues](#)

[COM 2523 Public Speaking](#)

[COM 4293 Media Law and Digital Ethics](#)

[COM 4443 Communication Internship](#)

3. Emphases Options:

A. Digital Journalism & Civic Engagement Emphasis - 37 hours

[COM 1153 Introduction to Video and Audio Production](#)

[COM 2163 Communication Technologies](#)

[COM 2333 News Editing](#)

[COM 2353 Public Relations Writing and Technology](#)

[COM 3153 Specialized Media Production](#)

[COM 3363 Magazine Writing](#)

[COM 3463 Opinion Writing](#)

[COM 4323 Advertising](#)

Digital Journalism & Civic Engagement Practicum Electives - 4 hours

[COM 2111/12 Practicum in Journalism](#)

[COM 3111/12 Advanced Practicum in Journalism](#)

[COM 4211/12 Online News Bureau Practicum](#)

Three of the following:

[ART 2403 Photo 1: Introduction to Photography](#)

[COM 3453 Social Movements](#)

[COM 3703 Leadership and Media Management](#)

[COM 4363 Political Communication](#)

[COM 4373 Online Advocacy](#)

B. Public Relations Emphasis - 37 hours

[COM 2343 News Editing for Public Relations](#)

[COM 2353 Public Relations Writing and Technology](#)

[COM 3363 Magazine Writing](#)

[COM 3453 Social Movements](#)

[COM 3653 Specialized Media Production for Public Relations](#)

[COM 4323 Advertising](#)

[COM 4373 Online Advocacy](#)

[COM 4453 Public Relations Planning](#)

[MKT 2143 Principles of Marketing](#)

Public Relations Practicum Electives - 4 hours

[COM 2111/12 Practicum in Journalism](#) (Advertising)

Two of the following:

[ART 1123 Computer Graphics](#)

[ART 2253 Graphic Design I](#)

[COM 3463 Opinion Writing](#)

C. Media Production Emphasis - 37 hours

[COM 1153 Introduction to Video and Audio Production](#)

[COM 1233 Podcasting and Online Audio Production](#)

[COM 2163 Communication Technologies](#)

[COM 3153 Specialized Media Production](#)

[COM 3703 Leadership and Media Management](#)

[COM 4182 Sports/News Broadcasting](#)

[COM 4243 Script Writing Workshop](#)

[COM 4333 Advanced Video/Audio Production](#)

[COM 4343 Media Programming and Promotion](#)

Radio Practicum - 3 hours

[COM 1101 Beginning Radio Practicum](#)

[COM 2101 Intermediate Radio Practicum](#)

[COM 3101 Advanced Radio Practicum](#)

Media Production Practicum Electives - 2 hours

[COM 1131 Beginning Media Production Performance Practicum](#)

[COM 2111/12 Practicum in Journalism](#)

[COM 2131 Intermediate Media Production Performance Practicum](#)

[COM 3121 Video/Audio Sports Practicum](#)

[COM 3131 Radio News Practicum](#)

[COM 3141 Media Production Program Assistant](#)

[COM 3151 KLRC Program Assistant](#)

[COM 3321 Independent Video Production](#)

[COM 3421 Advanced Media Production Practicum](#)

Two of the following:

[COM 3363 Magazine Writing](#)

[COM 3453 Social Movements](#)

[COM 3463 Opinion Writing](#)

[COM 4363 Political Communication](#)

[COM 4373 Online Advocacy](#)

[COM 4413 Selected Topics in Media Production](#)

D. Media Communication Emphasis - 37 hours

Students in the Media Communication Emphasis take courses in all *three* areas of the Communication Department: Digital Journalism & Civic Engagement, Media Production, and Public Relations. With the guidance of their advisor, students will create a study plan that consists of 37 hours in Communication.

1. Emphases Requirements - 27 hours - 9 (or more) hours in *each* of the following, as advised

A. Digital Journalism and Civic Engagement courses

B. Media Production courses

C. Public Relations courses

2. COM electives - 6 hours, as advised

3. Practicum - 4 hours (minimum), as advised

At least 15 hours must be upper-level course work.

4. Minor field or electives as necessary to complete minimum total hours.

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Digital Journalism & Civic Engagement

The student must successfully complete a minimum of 21 hours.

[COM 1153 Introduction to Video and Audio Production](#)

[COM 2123 News Writing and Reporting](#)

[COM 2333 Editing](#)

[COM 3363 Magazine Writing](#)

[COM 3463 Opinion Writing](#)

One of the following:

[COM 3153 Specialized Media Production](#)

[COM 3653 Specialized Media Production for Public Relations](#)

One of the following (or select three practicum hours):

[COM 2111/12 Practicum in Journalism](#)

[COM 3453 Social Movements](#)

[COM 3703 Leadership and Media Management](#)

[COM 4363 Political Communication](#)

[COM 4373 Online Advocacy](#)

Requirements for minor in Public Relations

The student must successfully complete a minimum of 21 hours.

[COM 1173 Faith, Media, and Calling](#)

[COM 2123 News Writing and Reporting](#)

[COM 2353 Public Relations Writing and Technology](#)

[COM 2523 Public Speaking](#)

[COM 4323 Advertising](#)

One of the following:

[COM 3153 Specialized Media Production](#)

[COM 3653 Specialized Media Production for Public Relations](#)

One of the following:

[COM 3453 Social Movement](#)

[COM 3703 Leadership and Media Management](#)

[COM 4363 Political Communication](#)

[COM 4373 Online Advocacy](#)

Requirements for minor in Sports Media

The student must successfully complete a minimum of 21 hours.

[COM 1153 Introduction to Video and Audio Production](#)

[COM 1233 Podcasting and Online Audio Production](#)

[COM 2123 News Writing and Reporting](#)

[COM 2163 Communication Technologies](#)

[COM 4182 Sports/News Broadcasting](#)

[COM 4243 Script Writing Workshop](#)

Four hours in two or more of the following (at least one hour must be upper-division level):

[COM 1101 Beginning Radio Practicum](#)

[COM 2101 Intermediate Radio Practicum](#)

[COM 3101 Advanced Radio Practicum](#)

[COM 3131 Radio News Practicum](#)

[COM 3151 KLRC Program Assistant](#)

[COM 3321 Independent Video Production](#)

[COM 3421 Advanced Media Production Practicum](#)

[COM 4333 Advanced Video/Audio Production](#)

Requirements for minor in Radio and Public Media

The student must successfully complete a minimum of 21 hours.

[COM 1101 Beginning Radio Practicum](#)

[COM 1153 Introduction to Video and Audio Production](#)

[COM 1233 Podcasting and Online Audio Production](#)

[COM 2163 Communication Technologies](#)

[COM 4333 Advanced Video/Audio Production](#)

[COM 4363 Political Communication](#)

Five hours in at least three of the following:

[COM 1131 Beginning Media Production Performance Practicum](#)

[COM 2131 Intermediate Media Production Performance Practicum](#)

[COM 3131 Radio News Practicum](#)

[COM 3321 Independent Video Production](#)

[COM 3421 Advanced Media Production Practicum](#)

[COM 3453 Social Movements](#)

Requirements for minor in Communication and Forensics

The student must successfully complete a minimum of 21 hours.

[COM 1153 Introduction to Video and Audio Production](#)

[COM 2121 Beginning Forensics Practicum](#)

[COM 2123 News Writing and Reporting](#)

[COM 2523 Public Speaking](#)

[COM 4243 Script Writing Workshop](#)

One of the following:

[COM 3453 Social Movements](#)

[COM 4363 Political Communication](#)

[COM 4373 Online Advocacy](#)

At least three hours from the following:

[COM 3161/62 Intermediate Forensics Practicum](#)

At least two hours from the following:

[COM 4161/62 Advanced Forensics Practicum](#)

DEPARTMENT OF MUSIC AND THEATRE

(SYMBOL: MUS)

The mission of the John Brown University Department of Music and Theatre is to facilitate growth toward musical and theatrical excellence as a means of glorifying God.

Student Learning Outcomes:

The student learning outcomes of the music and theatre department are directly tied to education of the head, heart, and hand:

I. HEAD: Demonstrate theoretical, historical, and technological competencies.

II. HEART: Develop Christ-like character through personal spiritual disciplines and community accountability.

III. HAND: Practice intellectual competencies and Christian character through excellence in performance and vocation.

All bachelor degree programs within the Department of Music and Theatre are designed to produce the following student learning outcomes in all graduating students:

1. Students will perform literature specific to emphasis and field of study, demonstrating stylistic insight, technical proficiency, musical artistry and a scholarly thought process.
2. Students will demonstrate a thorough understanding of the pre-performance aspects of music through written and aural mediums, based on fundamental theoretical principles.
3. Students will describe and explain the historical development of music, identifying historical styles and performance practices, musical forms, repertoire of different media, and the lives and contributions of outstanding musicians.
4. Students will demonstrate a working knowledge and application of technology and software used in various musical platforms and professions.
5. Students will develop an understanding of key principles, terms and theories in the sub-fields of music and education; and/or demonstrate mastery of these principles on national standardized tests.
6. Students will develop a personal philosophy of the arts, thinking through the integration of art and faith, the role of the arts in modern society, and the pedagogical responsibilities that come with being an educated artist.
7. Students will use the professional skills learned to serve the community of JBU and beyond.

For those wishing to follow careers in music and/or worship arts, courses are offered leading to the degrees of Bachelor of Arts, Bachelor of Science, and [Bachelor of Music Education](#). These curricula provide a well-rounded education for those wishing to enter the music profession as artists, teachers, conductors, church worship leaders and tech support, and musicians in other fields. In addition, the degrees in general music with various specific concentrations are designed for the student who anticipates graduate work in business, counseling/psychology, seminary, ethnomusicology, ethnodoxology, or other (minor related) field. These concentrations also provide guided course work in a specific area that can serve as sufficient supplemental education for numerous career options upon graduation.

All programs in music are closely aligned with work in Bible, liberal arts, and technological departments, also providing students majoring outside the Department of Music and Theatre the opportunity to study music as a minor or as an elective.

Admission Requirements for the Music Major/Minor

In addition to satisfying the university's [general requirements for admission](#), all applicants must audition for admission to the Music Program. During the audition, each candidate must demonstrate musical ability and potential, including a good sense of rhythm and the ability to sing in tune. Applicants are strongly advised to develop familiarity with both bass and treble clef before university study.

1. [Vocal](#) major/minor audition:

- a. Performance of two prepared songs. Suggested works include songs by classical composers (in a foreign language, if possible) and songs from operettas or Broadway musicals. For Worship Arts majors, one of the two selections may be a praise and worship song.
- b. Demonstration of skills at the keyboard or other instrument, as applicable. (Lack of piano skills will not preclude admittance to a music degree program. However, all majors must demonstrate specific piano skills before degree completion. Appropriate classes or private study will be required of all students based on keyboard proficiency.)
- c. Sight-reading a short excerpt.

2. [Piano](#) or [Organ](#) major/minor audition:

- a. Performance of two prepared selections from traditional literature, representing contrasting style periods. For Worship Arts majors, one of the prepared selections may be an arrangement of a praise and worship song or traditional hymn.
- b. Prepare four major and four harmonic minor scales.
- c. Sight-reading a short excerpt.

3. [Instrumental](#) major/minor audition:

- a. Performance of two contrasting selections demonstrating lyrical playing and technical proficiency. Repertoire may include studies, etudes and sonata or concerto literature, classical in nature. Repertoire should be comparable to that of state solo and ensemble competitions.
- b. Playing of major scales through four sharps and four flats demonstrating the full range of the instrument.
- c. Sight-reading a short excerpt.

NOTE: Bass players, guitar players, and set drummers may send a recording consisting of a demonstration of playing in contemporary styles and improvising. Recorded excerpts from ensembles such as jazz bands, combos, and worship teams may be included to demonstrate abilities in ensemble playing.

Students entering during the fall semester should complete the auditions by April 1. Audition forms are available online at www.jbu.edu/music.

An on-campus audition is preferable both for the student and for the faculty, but in cases where travel to Siloam Springs presents an insurmountable hardship, a recording incorporating the specified audition requirements will suffice. Students accepted on the basis of a recorded audition will need to complete the remainder of the process during the freshman orientation prior to registration. They may be asked to present part of their audition at that time.

Students are advised to complete all aspects of the audition as early in the high school senior year as possible. Those with deficiencies will be so advised, so that they may begin to work in the necessary area(s) before entering the university. Upon entrance, those who have not met the departmental standards may be granted permission by the music faculty to declare a provisional major until such deficiencies are eliminated. Prerequisite work in the major applied area is designated as [MUS 09 1](#) or [MUS 0891](#) and does not count toward the major, the minor, or graduation hours. Once the deficiencies are removed, a student enrolls for degree credit in the applied field ([MUS 19 1](#), [19 2](#), [1891](#) or [1892](#)). Students entering with deficiencies in the major applied area typically require nine or ten semesters, rather than the standard eight, to finish the baccalaureate degree. [B.Mus.Ed.](#) is a nine-semester degree: eight semesters of course work and the ninth semester spent in an internship. It is possible to complete the degree in eight semesters only if a student transfers in approved hours.

Transfer students are required to audition for admittance into the music program (see [Admission Requirements for the Major/Minor](#)). Skills in the areas of theory, musicianship, piano/voice and the applied concentration will be assessed at the time of the audition. Repeating previous course work may be required.

Applied Music Scholarships

The awarding of a music scholarship is based primarily on performance ability as determined in the audition for admission described above, or on ability demonstrated in ongoing applied instruction. After receiving a scholarship, the student must earn a GPA of 2.0 each semester, a 3.0 GPA in the major applied area, and a 2.5 cumulative GPA to retain the scholarship. Scholarships are reviewed annually and may be adjusted higher or lower based upon the merit of the recipient's academic and applied work.

A student majoring in a music program may expect to retain a scholarship for eight semesters providing the above criteria are met. An exception is made for a student in the music education program who is completing the internship during a ninth semester. If a student fails to meet any portion of the applied scholarship requirements, that student will be placed on probation, but will retain the applied music scholarship for the following semester. At the end of the probationary period, the progress of the student will be reassessed. At such time, the applied music scholarship will either be continued or discontinued.

Applied music scholarships are not available for students minoring in the music program. Ensemble scholarships may be available to all students.

General Requirements for Music Degrees

1. **Demonstrated potential.** Each candidate must select a primary performance medium (voice, piano, organ, or instrument), meet yearly requirements as set by the music faculty, and fulfill all stated degree requirements. The [B.A. with an emphasis in Voice, Piano, or Organ](#) requires that students demonstrate adequate potential in performance before being allowed to pursue this degree program. Official admittance occurs at the end of the second semester of the sophomore year, only upon recommendation of the faculty, after the student has passed the [Upper Division Applied Admittance Exam](#). Students desiring to pursue the performance degree must enroll each term in two-credit applied lessons in the major area.

2. **Ensemble participation requirements.** Each major is required to participate satisfactorily in at least one ensemble per semester at JBU. (The faculty will grant exceptions to B.Mus.Ed. students during the semester of their internship or to students taking fewer than six hours.) Up to four hours of Accompanying Practicum (after meeting the specified prerequisites) may count as ensemble credit for those whose major instrument is piano. Students may choose music theater, choral, or instrumental groups. Qualified non-majors are encouraged to participate.

3. **Recital attendance.** Satisfactory completion of MUS 1000 Recital Attendance is required every semester majors are full-time students at JBU. Students in B.Mus.Ed. are exempted the semester of their internship. Two semesters are required of minors.

4. **Recital participation.** All majors enrolled in applied lessons are required to perform in a departmental recital in their area of concentration once during the first year of study and at least once each semester thereafter, or at the discretion of the teacher.

5. **Jury exams.** Counterparts to final exams in lecture courses, juries are scheduled at the end of each semester of applied study. Jury grades assigned by the adjudicators have an impact on the applied course grade, although the final grade is assigned at the discretion of the instructor.

6. **Piano Proficiency.** Incoming students will be assessed in the area of piano skills, and placed in an appropriate level piano course. A Piano Proficiency Exam will be administered at the end of Class Piano IV or after the first semester of Applied Piano, whichever occurs first. All music majors, regardless of degree, must pass each section of the Piano Proficiency Exam. Students who do not pass the Piano Proficiency will be required to either: (1) repeat Class Piano IV; or (2) enroll in remedial Applied Piano MUS 0991 (with consent of instructor) and pass the proficiency before proceeding to Applied Piano for credit. *Students who do not pass all sections of the Piano Proficiency Exam will not be awarded a music degree.*

The Piano Proficiency Exam is given in seven sections, as follows:

- (1) Sight-read a 4-part hymn/chorale;
- (2) Sight-read a solo piece of early-intermediate level;
- (3) Play all major scales 4 octaves in eighth notes at a minimum tempo of MM=120 per quarter note, hands together;
- (4) Play I-IV-I-V65-I chord progression in all keys, major and minor, at a minimum tempo of MM=100 (one chord per beat);
- (5) Harmonize a melody at sight;
- (6) Play prepared accompaniment of early intermediate level with soloist;
- (7) Perform a solo piece of early intermediate level (score may be used).

Qualified non-keyboard majors may enroll in piano and organ lessons with an upper-division number (3000+) only after taking four semesters of keyboard and passing the Upper-Division Applied Admittance Exam.

7. Upper-Division Applied Admittance Exam. The Upper-Division Applied Admittance Exam is taken by all majors. The exam is taken instead of the jury at the end of the fourth semester of degree credit in the major applied performance medium, and it is twice the length of a usual jury.

The student must pass the "a" part of the exam in the respective applied area (see below) before earning upper-division credit in applied music; if the student does not pass the "a" requirement, the next semester of study is taken for additional lower-division credit.

A student who does not pass the other parts of the exam in the respective applied area may earn upper-division credit in the applied area for the next semester, but will re-take those other parts of the exam at the end of the next semester of study. If the student fails a second time, subsequent applied study will be for lower-division credit until the student passes all remaining parts of the exam.

The same policy applies to transfer students. They must pass the "a" part of the exam in the respective applied area in order to register for upper-division credit for the next semester. If they fail any other parts of the exam not passed on the first attempt, they must re-take those parts of the exam at the end of that semester in order to continue to earn upper-division credit. Otherwise, subsequent applied study will be for lower-division credit until they pass all remaining parts of the exam.

Voice expectations:

- a. perform four songs or arias (arias count for two songs) from current repertoire by memory in three languages (English, Italian, and German), of varying styles, and demonstrating developing musicality and expressiveness; and

b. demonstrate sight-reading proficiency using techniques learned in musicianship classes. The difficulty of the music selection corresponds with the amount of completed coursework specific to each degree program.

Piano expectations:

- a. play advanced literature from three of the following style periods: (1) Baroque (Bach WTC or comparable-more difficult than Two-part Inventions); (2) Classical (Beethoven or Mozart sonata or comparable literature); (3) Romantic (Chopin, Brahms); and (4) Impressionistic/20th century (Debussy, Prokofieff). At least one piece or movement is to be completely memorized. The performance of these requirements should be stylistically convincing, and the performer should display a developing sense of musicality and expressiveness;
- b. play major, harmonic, and melodic minor scales for four octaves in sixteenth notes at a minimum tempo of MM=120 per quarter note, hands together;
- c. play major and minor arpeggios in all inversions for four octaves in sixteenth notes at a minimum tempo of MM=100 per quarter note, hands together;
- d. play major and minor cadences (I-IV-I⁶₄-V⁷-I) with right hand in all inversions and left hand in octaves; and
- e. sight-read (1) a hymn having three or more sharps or flats in the key signature with intermediate rhythmic complexity and (2) a vocal accompaniment of an early-intermediate level.

Worship Arts Piano expectations:

- a. play advanced literature from two of the following style periods: (1) Baroque (Bach WTC or comparable - more difficult than Two-part Interventions); (2) Classical (Beethoven or Mozart sonata or comparable literature); (3) Romantic (Chopin, Brahms); and (4) Impressionistic/20th century (Debussy, Prokofieff). At least one piece or movement is to be completely memorized. The performance of these requirements should be stylistically convincing, and the performer should display a developing sense of musicality and expressiveness;
- b. play major, harmonic, and melodic minor scales for four octaves in sixteenth notes at a minimum tempo of MM=100 per quarter note, hands together;
- c. play major and minor arpeggios in all inversions for four octaves in sixteenth notes at a minimum tempo of MM=80 per quarter note, hands together;
- d. play major and minor cadences (I-IV-I⁶₄-V⁷-I) with right hand in all inversions and left hand in octaves; and
- e. sight-read (1) a hymn having three or more sharps or flats in the key signature with intermediate rhythmic complexity; (2) a vocal accompaniment of an early-intermediate level; and (3) a contemporary worship song written on a lead sheet.

Organ expectations:

- a. play one work from each of these style periods: (1) Baroque, (2) Romantic, and (3) 20th century. The performance of these requirements should be stylistically convincing and the performer should display a developing sense of musicality and expressiveness;
- b. play an introduction and two stanzas of a hymn. The stanzas must be played in a contrasting manner, as appropriate for the text;
- c. play a hymn transposed up or down a half-step and whole step; and
- d. sight-read (1) a hymn having three or more sharps or flats in the key signature with intermediate rhythmic complexity and (2) a simple work in trio texture.

Each candidate for the B.A. degree with an emphasis in [Organ](#) is also required to earn the Service Playing Certificate (SPC) of the American Guild of Organists before entering upper-division work.

[Instrumental](#) expectations:

- a. perform literature from three stylistic periods. The performances should be stylistically convincing and the performer should display a developing sense of musicality and expressiveness.
- b. play scales and other technical exercises as appropriate.
- c. demonstrate sight-reading proficiency, as determined by the instructor.

8. Recital or Presentation. A candidate for the B.A. degree in Applied Music (specialization in Organ, Piano, or Voice) is required to present a half recital during the junior year ([MUS 3900](#)) and a full recital during the senior year ([MUS 4900](#)). These recitals may not take place during consecutive semesters.

A candidate for the B.A. or B.S. degree in [General Music](#) has the choice between a half recital during the senior year ([MUS 4900](#)) or a Senior Presentation ([MUS 4910](#)). Four hours of upper-division credit in the applied concentration is necessary in order to perform a senior recital.

A candidate for the [B.Mus.Ed.](#) degree is required to perform a half recital during the senior year ([MUS 4900](#)).

A candidate for the B.S. degree in [Worship Arts](#) is required to design and execute a corporate worship service (Senior Presentation in Worship Arts [MUS 4920](#)).

Recitalists are required to enroll in applied lessons during the semester the recital is scheduled. Similarly, those choosing the Senior Presentation or the Senior Presentation in Worship Arts must enroll in [MUS 4191 Senior Presentation Preparation](#) for faculty mentoring.

9. Major Field Test in Music. All majors (except those majoring in Worship Arts) are required to take the Major Field Test in Music as a condition of graduation after completing [MUS 4113](#) and [3223](#). If one of these courses is taken in the last semester of study, the Major Field Test should be taken as late in the semester as practical.

10. **Certification for Organists.** All candidates for the B.A. with emphasis in [Organ](#) must take the examination for the Colleague Certificate of the American Guild of Organists (CAGO) no later than the beginning of the last semester of study.

Requirements for the Bachelor of Arts (B.A.) degree in Applied Music (specialization in Organ, Piano, or Voice)

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by MUS 1203 in the program requirements.

2. Courses Specified by the Department - 28 hours

[MUS 1000 Recital Attendance](#)

[MUS 1111 Musicianship I](#)

[MUS 1113 Theory I](#)

[MUS 1203 Liberal Arts Foundations for the Musician](#)

[MUS 2111 Musicianship II](#)

[MUS 2113 Theory II](#)

[MUS 3213 History of Music I](#)

[MUS 3223 History of Music II](#)

[MUS 3241 Musicianship III](#)

[MUS 3243 Theory III](#)

[MUS 3411 Conducting I](#)

[MUS 3900* Junior Recital](#)

[MUS 4103* Music Arranging with MIDI](#)

[MUS 4113 Harmonic Form and Analysis](#)

[MUS 4900* Senior Recital](#)

3. One of the following Specializations - 31 hours

Voice

[MUS 1911 Lyric Diction I](#)

[MUS 1921 Lyric Diction II](#)

[MUS 1931/41, 2931/41 Class Piano I-IV](#) (see other options in [Piano Proficiency](#))

[MUS 1980/3980 Studio Class in Voice](#) (each semester of [Applied Voice*](#))

[MUS 1981* Applied Voice](#): 8 hours

[MUS 3981* Applied Voice](#): 8 hours

[MUS 4281 Vocal Literature](#)

[MUS 4382 Vocal Pedagogy](#)

Music Theatre - 6 hours from

[MUS 1731/3731 Music and Theatre Scenes](#)

[MUS 1732/3732 Music Theatre Production](#)

Choral Ensemble: a minimum of two semesters (see [Ensemble participation requirements](#))

Piano

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1990/3990 Studio Class in Piano](#) (each semester of [Applied Piano](#))

[MUS 1991* Applied Piano](#): 8 hours

[MUS 2601 Accompanying Class](#)

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

[MUS 3601 Music Practicum: Accompanying](#)

[MUS 3991* Applied Piano](#): 8 hours

[MUS 4261 Piano Pedagogy](#)

[MUS 4262 Piano Literature](#)

Ensemble Participation: 6 hours (see [Ensemble participation requirements](#))

Organ

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1971* Applied Organ](#): 8 hours

[MUS 1990/3990 Studio Class in Piano](#) (each semester of [Applied Organ*](#))

[MUS 2601 Accompanying Class](#)

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

[MUS 3611 Music Practicum: Church Organist](#)

[MUS 3971* Applied Organ](#): 8 hours

[MUS 4273 Organ Literature and Pedagogy](#)

Ensemble participation: 6 hours (see [Ensemble participation requirements](#))

4. [Foreign Language](#) - 12 hours

For Voice majors:

[LS 1213 Elementary French I](#)

[LS 1223 Elementary French II](#)

[LS 1313 Elementary German I](#)

[LS 1323 Elementary German II](#)

For Piano, Organ, or Instrumental majors:

Twelve hours of LS-1000, LS-2000 level courses; or six hours of LS-2000 level courses

Completion of an intermediate language course meets the [Global Studies](#) requirement of the Core Curriculum

5. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan - Voice](#)

[View 4-Year Plan - Piano](#)

[View 4-Year Plan - Organ](#)

*See [Music Fee Schedule](#)

Requirements for the Bachelor of Arts (B.A.) degree with major in General Music

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by MUS 1203 in the program requirements.

2. Courses Specified by this Department - 29 hours

[MUS 1000 Recital Attendance](#)

[MUS 1111 Musicianship I](#)

[MUS 1113 Theory I](#)

[MUS 1203 Liberal Arts Foundations for the Musician](#)

[MUS 2111 Musicianship II](#)

[MUS 2113 Theory II](#)

[MUS 3213 History of Music I](#)

[MUS 3223 History of Music II](#)

[MUS 3241 Musicianship III](#)

[MUS 3243 Theory III](#)

[MUS 3411 Conducting I](#)

[MUS 4103* Music Arranging with MIDI](#)

[MUS 4113 Harmonic Form and Analysis](#)

Capstone Option A or B:

A. [MUS 39_1*](#) or [3891* Applied Lessons](#)

[MUS 4900* Senior Recital \(half recital\)](#)

B. [MUS 4191* Senior Presentation Preparation](#)

[MUS 4910* Senior Presentation](#)

3. One of the following Emphases - 12 or 13 hours

Voice

[MUS 1931/41, 2931/41* Class Piano I-IV](#) (see other options in [Piano Proficiency](#))

[MUS 1980 Studio Class in Voice](#): 4 semesters

[MUS 1981* Applied Voice](#): 4 hours

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Piano

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1990 Studio Class in Piano](#): 4 semesters

[MUS 1991* Applied Piano](#): 4 hours

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Organ

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1971* Applied Organ](#): 4 hours

[MUS 1990 Studio Class in Piano](#): 4 semesters

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Instrumental Music (as applied instructors are available)

[MUS 1890 Studio Class in Instrumental Music](#): 4 semesters (as needed and available)

[MUS 1891* Applied Instrument](#): 4 hours

[MUS 1931/41, 2931/41* Class Piano I-IV](#) (see other options in [Piano Proficiency](#))

[MUS 1951 Class Lessons in Voice](#) (or 1 hour of [Applied Voice*](#))

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

3a. Successful completion of the [Upper-Division Applied Admittance Exam](#) in the applied concentration area

Any additional hours in applied area will count as music electives. Any hours taken after passing the Upper-Division Applied Admittance Exam will be taken at the 3000-level for upper-division credit. Four hours of upper-division credit is a requirement for performing a senior recital.

4. Choose a minimum of one additional upper-division hour in music if concentrating in voice or instrumental music.

5. [Foreign language](#) - 12 hours

For Voice majors:

[LS 1213 Elementary French I](#)

[LS 1223 Elementary French II](#)

[LS 1313 Elementary German I](#)

[LS 1323 Elementary German II](#)

For Piano, Organ, or Instrumental majors:

Twelve hours of LS-1000, LS-2000 level courses; or six hours of LS-2000 level courses

Completion of an intermediate language course meets the [Global Studies](#) requirement of the Core Curriculum

6. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan - Voice](#)

[View 4-Year Plan - Piano-Organ](#)

[View 4-Year Plan - Instrumental](#)

* See [Music Fee Schedule](#)

Requirements for the Bachelor of Science (B.S.) degree with major in General Music

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by MUS 1203 in the program requirements.

2. Courses Specified by this Department - 29 hours

[MUS 1000 Recital Attendance](#)

[MUS 1111 Musicianship I](#)

[MUS 1113 Theory I](#)

[MUS 1203 Liberal Arts Foundations for the Musician](#)

[MUS 2111 Musicianship II](#)

[MUS 2113 Theory II](#)

[MUS 3213 History of Music I](#)

[MUS 3223 History of Music II](#)

[MUS 3241 Musicianship III](#)

[MUS 3243 Theory III](#)

[MUS 3411 Conducting I](#)

[MUS 4103* Music Arranging with MIDI](#)

[MUS 4113 Harmonic Form and Analysis](#)

Capstone Option A or B:

A. [MUS 39 1*](#) or [3891* Applied Lessons](#)

[MUS 4900* Senior Recital \(half recital\)](#)

B. [MUS 4191* Senior Presentation Preparation](#)

[MUS 4910* Senior Presentation](#)

3. One of the following Emphases - 12 or 13 hours

Voice

[MUS 1931/41, 2931/41*](#) Class Piano I-IV (see other options in [Piano Proficiency](#))

[MUS 1980 Studio Class in Voice](#): 4 semesters

[MUS 1981* Applied Voice](#): 4 hours

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Piano

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice](#)*)

[MUS 1990 Studio Class in Piano](#): 4 semesters

[MUS 1991* Applied Piano](#): 4 hours

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Organ

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice](#)*)

[MUS 1971* Applied Organ](#): 4 hours

[MUS 1990 Studio Class in Piano](#): 4 semesters

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Instrumental Music (as applied instructors are available)

[MUS 1890 Instrumental Music Studio Class](#): 4 semesters (as needed and available)

[MUS 1891* Applied Instrument](#): 4 hours

[MUS 1931/41, 2931/41* Class Piano I-IV](#) (see other options in [Piano Proficiency](#))

[MUS 1951 Class Lessons in Voice](#), (or 1 hour of [Applied Voice](#)*)

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

3a. Successful completion of the [Upper-Division Applied Admittance Exam](#) in the applied concentration

Any additional hours in applied area will count as music electives. Any hours taken after passing the Upper-Division Applied Admittance Exam will be taken at the 3000-level for upper-division credit. Four hours of upper-division credit is a requirement for performing a senior recital.

4. Choose a minimum of one additional upper-division hour in music if concentrating in voice or instrumental music

5. Concentration Option - 21 hours

Students may choose a concentration as listed below in Business, Family and Human Services, Intercultural Studies, or Worship Arts. Students who do not select one of these options will fulfill their non-major requirements with electives.

A. Business

[ATG 2173 Financial Accounting](#)

[ATG 2183 Managerial Accounting](#)

[BUS 2193 Business Statistics](#)

[BUS 4173 Business Finance](#)

[ECN 2113 Microeconomics](#)

[MKT 2143 Principles of Marketing](#)

An additional 3 hours of upper-division course work from the College of Business

B. Family and Human Services

[FAM 2123 Introduction to Family Science](#)

[FAM 3133 Marriage and Family Living](#)

[FAM 3243 Family Sexuality](#)

[FAM 4253 Family Communication](#)

[PSY 2233 Theories of Counseling](#)

[PSY 2243 Introduction to Therapeutic Interviewing](#)

[RPH 4423 Ethics](#)

C. Intercultural Studies

[BBL 3583 Perspectives on the World Christian Movement](#)

[CMN 2263 Discipleship and Evangelism](#)

[ICS 2113 Intercultural Communication](#)

[ICS 2123 Cultural Anthropology](#)

[ICS 3243 Principles and Philosophy of Community Development](#)

One of the following:

[BBL 3353 Theology of Worship](#)

[RPH 3323 Philosophy of the Christian Faith](#)

One of the following:

[RPH 3533 Introduction to Islam](#)

[RPH 3543 Introduction to Hinduism/Buddhism](#)

D. Worship Arts

[BBL 3353 Theology of Worship](#)

[MUS 2503 Worship Arts I: Orientation](#)

[MUS 2513 Worship Arts II: Materials and Methods](#)

[MUS 3232 Contemporary Worship Music in Theory and Practice](#)

[MUS 3563 Audio Technology I](#)

[MUS 3501 Writing for the Church](#)

One of the following:

[ART 1123 Computer Graphics](#)

[ART 2253 Graphic Design I](#)

One of the following:

[MUS 3323 Children's Music Ministry Methods](#)

[MUS 4563 Audio Technology II](#)

6. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan - Voice](#)

[View 4-Year Plan - Piano-Organ](#)

[View 4-Year Plan - Instrumental](#)

*See [Music Fee Schedule](#)

Requirements for the Bachelor of Music Education (B.Mus.Ed.) degree with major in Music, K-12 Certification

1. [University Core Curriculum](#) - 46 hours

[The Arts](#) elective is covered by MUS 1203 and the [Social Science](#) elective is covered by ED 2143 in the program requirements. The [Philosophy](#) elective is not required for this program.

2. Other Required Courses - 3 hours

Approved First Aid/CPR Course (age appropriate) before Internship

[COM 2523 Public Speaking](#)

3. Professional Education - 25 hours

[ED 1111 Seminar in Education](#)

[ED 2143 Learning Theories and Development Psychology](#)

[ED 2713 Differentiated Learning](#)

[ED 3113 Framework for Teaching - Secondary Education](#)

[ED 4890 Internship: P-12](#)

[ED 4891 Seminar: P-12](#)

4. Music Teaching Field - 46-47 hours

[MUS 1000 Recital Attendance](#)

[MUS 1111 Musicianship I](#)

[MUS 1113 Theory I](#)

[MUS 1203 Liberal Arts Foundations for the Musician](#)

[MUS 1911 Lyric Diction I](#)

[MUS 1921 Lyric Diction II](#)

[MUS 2111 Musicianship II](#)

[MUS 2113 Theory II](#)

[MUS 3101* Survey of Instruments](#)

[MUS 3213 History of Music I](#)

[MUS 3223 History of Music II](#)

[MUS 3241 Musicianship III](#)

[MUS 3243 Theory III](#)

[MUS 3301 Choral Techniques](#)

[MUS 3313 Public School Music Methods, K-6](#)

[MUS 3411 Conducting I](#)

[MUS 3421 Conducting II](#)

[MUS 4103* Music Arranging with MIDI](#)

[MUS 4113 Harmonic Form and Analysis](#)

[MUS 4382 Vocal Pedagogy](#)

[MUS 4573 Public School Music Methods, 7-12](#)

[MUS 4900 Senior Recital \(half recital\)](#)

Ensemble Participation: 4 hours (see [Ensemble participation requirements](#))

One of the following:

[MUS 1731 Music and Theatre Scenes](#)

[MUS 1732 Music Theatre Production](#)

5. One of the following Emphases - 11 hours

Voice:

Applied Voice Option A or B:

A. [MUS 1981* Applied Voice](#): 4 hours

[MUS 3981* Applied Voice](#): 3 hours

[MUS 1980/3980 Studio Class in Voice](#) (each semester of [Applied Voice](#))

[MUS 1931/41*](#), [2931/41*](#) Class Piano I-IV (see other options in [Piano Proficiency](#))

B. [MUS 1951 Class Lessons in Voice](#): 1 hour

[MUS 1981* Applied Voice](#): 3 hours

[MUS 3981* Applied Voice](#): 3 hours

[MUS 1980/3980 Studio Class in Voice](#) (each semester of [Applied Voice](#))

[MUS 1931/41*](#), [2931/41*](#) Class Piano I-IV (see other options in [Piano Proficiency](#))

Piano:

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1990/3990 Studio Class in Piano](#) (each semester of [Applied Piano](#))

[MUS 1991* Applied Piano](#): 4 hours

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

[MUS 3991* Applied Piano](#): 2 hours

[MUS 4261 Piano Pedagogy](#)

Organ:

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1971* Applied Organ](#): 4 hours

[MUS 1990/3990 Studio Class in Piano](#) (each semester of [Applied Organ](#))

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

[MUS 3971* Applied Organ](#): 3 hours

[View 4-Year Plan - Voice](#)

[View 4-Year Plan - Piano](#)

*See [Music Fee Schedule](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Worship Arts

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by MUS 1203 in the program requirements.

2. Courses specified by this Department - 18 hours

[MUS 1000 Recital Attendance](#)

[MUS 1111 Musicianship I](#)

[MUS 1113 Theory I](#)

[MUS 1203 Liberal Arts Foundations for the Musician](#)

[MUS 2111 Musicianship II](#)

[MUS 2113 Theory II](#)

[MUS 3213 History of Music I](#)

[MUS 3411 Conducting I](#)

[MUS 4103* Music Arranging with MIDI](#)

3. One of the following Emphases - 13 hours

Voice

[MUS 1980 Studio Class in Voice](#): 4 semesters

[MUS 1981* Applied Voice](#): 4 hours

[MUS 1931/41, 2931/41*](#) Class Piano I-IV (see other options in [Piano Proficiency](#))

[MUS 3131 Introduction to Commercial Voice Techniques](#)

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Piano

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1990 Studio Class in Piano](#): 4 semesters

[MUS 1991* Applied Piano](#): 4 hours

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

One additional applied hour in either Voice, Piano, or Instrument*

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Organ

[MUS 1971* Applied Organ](#): 4 hours

[MUS 1951 Class Lessons in Voice](#) and 1 hour of [Applied Voice](#) (or 2 hours of [Applied Voice*](#))

[MUS 1990 Studio Class in Piano](#): 4 semesters

[MUS 3151 Functional Keyboard Skills I](#)

[MUS 3161 Functional Keyboard Skills II](#)

One additional applied hour in either Voice, Piano, or Instrument*

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

Instrumental Music (as applied instructors are available)

[MUS 1890 Studio Class in Instrumental Music](#): 4 semesters (as needed and available)

[MUS 1891* Applied Instrument](#): 4 hours

[MUS 1931/41, 2931/41* Class Piano I-IV](#) (see other options in [Piano Proficiency](#))

[MUS 1951 Class Lessons in Voice](#) (or 1 hour of [Applied Voice*](#))

Ensemble participation: 4 hours (see [Ensemble participation requirements](#))

3a. Successful completion of the [Upper-Division Applied Admittance Exam](#) in the applied emphasis

4. Worship Arts Core - 34-35 hours

[BBL 3353 Theology of Worship](#)

[BBL 3363 History of the Christian Church I](#)

[BBL 3373 History of the Christian Church II](#)

[MUS 2503 Worship Arts I: Orientation](#)

[MUS 2513 Worship Arts II: Materials and Methods](#)

[MUS 3101 Survey of Instruments](#)

[MUS 3232 Contemporary Worship Music in Theory and Practice](#)

[MUS 3323 Children's Music Ministry Methods](#)

[MUS 3563* Audio Technology I](#)

[MUS 36_1 Music Practicum: \(as advised\)](#)

[MUS 3501 Writing for the Church](#)

[MUS 4191* Senior Presentation Preparation](#)

[MUS 4553 Internship in Worship Arts](#)

[MUS 4920* Senior Presentation in Worship Arts](#)

One of the following:

[MUS 1731 Music and Theatre Scenes](#)

[MUS 1732 Music Theatre Production](#)

One of the following:

[ART 1123 Computer Graphics](#)

[ART 2253 Graphic Design I](#)

5. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4Year Plan - Voice](#)

[View 4-Year Plan - Piano/Organ](#)

[View 4-Year Plan - Instrumental](#)

*See [Music Fee Schedule](#)

Requirements for minor in Music

The student must successfully complete a total of 18 semester hours comprising work in the classroom, ensemble participation, and private instruction in applied music (either private or class)-voice, piano, organ, or other approved instrument.

Required Courses - 12 hours

[MUS 1000 Recital Attendance](#): 2 semesters

[MUS 1111 Musicianship I](#)

[MUS 1113 Theory I](#)

[MUS 1203 Liberal Arts Foundations for the Musician](#)

[Applied Music Instruction](#)*: 4 hours (either private or class)

Ensemble Participation: 1 hour (see [Ensemble participation requirements](#))

Six hours from the following:

[MUS 3101 Survey of Instruments](#)

[MUS 3213 History of Music I](#)

[MUS 3223 History of Music II](#)

[MUS 3323 Children's Music Ministry Methods](#)

[MUS 3411 Conducting I](#)

[MUS 3421 Conducting II](#)

[MUS 3563* Audio Technology I](#)

[MUS 4261 Piano Pedagogy](#)

[MUS 4262 Piano Literature](#)

[MUS 4273 Organ Literature and Pedagogy](#)

[MUS 4281 Vocal Literature](#)

[MUS 4291 Choral Literature](#)

[MUS 4382 Vocal Pedagogy](#)

[MUS 4563* Audio Technology II](#)

Please note required prerequisites for each course as specified in the course descriptions.

* See [Music Fee Schedule](#)

Requirements for minor in Worship Arts

The student must successfully complete a minimum of 21 hours.

[MUS 1000 Recital Attendance](#): 2 semesters

[MUS 1111 Musicianship I](#)

[MUS 1113 Theory I](#)

[MUS 2503 Worship Arts I: Orientation](#)

[MUS 2513 Worship Arts II: Materials and Methods](#)

[MUS 3101 Survey of Instruments](#)

[MUS 3411 Conducting I](#)

[MUS 3563* Audio Technology I](#)

[MUS 3501 Writing for the Church](#)

Choose one option:

A. Voice or Piano:

Piano Instruction-2 hours from [MUS 1931*/41*/91*](#) (Class or Applied)

Vocal Instruction-2 hours from [MUS 1951/81*](#) (Class or Applied)

One additional hour in either Voice, Piano, or Instrument*

B. Instrument:

Instrument instruction-2 hours from [MUS 1891*](#) (Applied)

Piano Instruction-2 hours from [MUS 1931*/41*/91*](#) (Class or Applied)

Vocal Instruction-1 hour from [MUS 1951/81*](#) (Class or Applied)

* See [Music Fee Schedule](#)

Requirements for minor in Theatre

The student must complete a minimum of 18 hours.

[MUS 1731, 3731 Music and Theatre Scenes](#): 2 hours

[MUS 1732, 3732 Music Theatre Production](#): 4 hours

[THE 1112 Freshman Theatre Workshop](#)

[THE 2113 Basic Acting](#)

[THE 2121/22 Practicum in Theatre Production](#)

[THE 3113 Theatre Workshop](#)

[THE 4483 Selected Topics in Theatre Studies](#)

DEPARTMENT OF VISUAL ARTS

(SYMBOL: ART)

The mission of the John Brown University Department of Visual Arts is to equip students with the intellectual and practical abilities required of a visual communication professional. These abilities are equally conceptual and technical.

This is a field that involves the Head, Heart, and Hand. The Department of Visual Arts strives to give students an equal emphasis on concept and technique with an overarching set of values that integrates it all.

In each of our majors the ability to think creatively and solve problems in innovative ways is a critical skill to develop. Visual artists must be thinkers, not simply decorators. On the other hand, successful careers are not possible for students who have great ideas but have not learned the critical techniques for making those ideas reality. Visual artists must also have skills in their chosen media.

Student Learning Outcomes:

While specific skill sets vary from one media to the next, there are four common student learning outcomes:

1. Students will demonstrate the ability to generate creative, innovative, problem-solving ideas.
2. Students will demonstrate the ability to practice their media at a high level.
3. Students will understand the professional practices in their field.
4. Students will prepare a body of work that demonstrates their ability to think and create.

The Department of Visual Arts offers the Bachelor of Science (B.S.) degree with majors in [Art and Illustration](#), [Digital Cinema](#), [Graphic Design](#), and [Photography](#) and minors are available in all four areas.

All major programs require a common Visual Arts core of 15 hours and an additional 36 hours in the specialized field.

The Department of Visual Arts is housed in two state-of-the-art buildings featuring the latest equipment in two MAC labs, theatre-style classroom, painting and drawing classrooms, graphic design classrooms, photography studios, screenprinting/printmaking studio, two traditional darkrooms and digital darkroom. Visual Arts also has two busy art galleries that feature monthly exhibits, including an annual show of "Student Works."

All of the Visual Arts degrees are highly demanding of student time, energy, and talent. The goal of these multifaceted programs is to graduate industry-ready professionals who are prepared to step into positions which demand diverse proficiencies. All students participate in either an internship or senior project and prepare a portfolio to further aid them in their professional development. Our students are strongly encouraged to participate in foreign study and mission opportunities as a way to broaden their understanding of our world and to enrich their Christian worldview.

Requirements for the Bachelor of Science (B.S.) degree with major in Art and Illustration

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by either ART 2163, ART 2233 or ART 2343 in the program requirements.

2. Visual Arts Department Core - 15 hours

[ART 1123 Computer Graphics](#)

[ART 1133 Visual Art Foundation](#)

[ART 2213 Color Studies](#)

[ART 2403 Photo 1: Introduction to Photography](#)

One of the following:

[ART 2153 European Arts and Culture](#)

[ART 2163 Irish Arts and Culture](#)

[ART 2233 Art History I](#)

[ART 2343 European Art Tour](#)

3. Art and Illustration Core - 21 hours

[ART 1243 Drawing I](#)

[ART 2453 Drawing II](#)

[ART 2613 Digital Illustration](#)

[ART 3323 Figure Drawing I](#)

[ART 3423 Figure Drawing II](#)

[ART 3623 Advanced Studio I](#)

[ART 3633 Advanced Studio II](#)

4. One of the following tracks - 15 hours:

Illustration Concentration

[ART 3453 Illustration I](#)

[ART 3463 Illustration II](#)

[ART 4103 Portfolio and Presentation](#)

Two of the following:

[ART 3353 Studio Art: Selected Topics](#)

[ART 3383 Oil Painting I](#)

[ART 3393 Oil Painting II](#)

[ART 3643 Introduction to Printmaking](#)

[ART 3653 Screenprinting](#)

Fine Art Concentration

[ART 3233 Art History II](#)

[ART 4953 Capstone Exhibition](#)

Three of the following:

[ART 3353 Studio Art: Selected Topics](#)

[ART 3383 Oil Painting I](#)

[ART 3393 Oil Painting II](#)

[ART 3643 Introduction to Printmaking](#)

[ART 3653 Screenprinting](#)

5. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan Illustration](#)

[View 4-Year Plan Fine Art](#)

Requirements for minor in Art and Illustration

The student must successfully complete a minimum of 21 hours.

[ART 1133 Visual Art Foundation](#)

[ART 1243 Drawing I](#)

[ART 2453 Drawing II](#)

[ART 3453 Illustration I](#)

One of the following

[ART 2233 Art History I](#)

[ART 3233 Art History II](#)

Six hours from the following:

[ART 2273 3D Modeling](#)

[ART 2613 Digital Illustration](#)

[ART 3223 Advanced 3D Modeling](#)

[ART 3323 Figure Drawing I](#)

[ART 3353 Studio Art: Selected Topics](#)

[ART 3383 Oil Painting I](#)

[ART 3393 Oil Painting II](#)

[ART 3643 Introduction to Printmaking](#)

[ART 3653 Screenprinting](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Digital Cinema

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by either ART 2153, ART 2233, or ART 2343 in the program requirements.

2. Visual Arts Department Core - 15 hours

[ART 1123 Computer Graphics](#)

[ART 1133 Visual Art Foundation](#)

[ART 2213 Color Studies](#)

[ART 2403 Photo 1: Introduction to Photography](#)

One of the following:

[ART 2153 European Arts and Culture](#)

[ART 2163 Irish Arts and Culture](#)

[ART 2233 Art History I](#)

[ART 2343 European Art Tour](#)

3. Digital Cinema Major - 36 hours

[ART 2103 Foundations of Digital Editing](#)

[ART 2113 Introduction to Cinema](#)

[ART 2123 Cinematography](#)

[ART 3403 Film Theory and Criticism](#)

[ART 3523 Lighting for Photography and Cinema](#)

[ART 3703 Screenwriting](#)

[ART 4163 Non-Fiction Film Production](#)

[ART 4173 Narrative Film Production](#)

[ART 4423 Internship](#)

[ART 4973 Senior Cinema Project I](#)

[ART 4983 Senior Cinema Project II](#)

One of the following:

[ART 2253 Graphic Design I](#)

[ART 3153 Photo 3: Digital Darkroom](#)

[ART 3503 Motion Graphics](#)

[ART 3583 Cinematic Audio Production](#)

[ART 3883 Selected Topics](#)

4. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Digital Cinema

The student must successfully complete a minimum of 21 hours.

[ART 1123 Computer Graphics](#)

[ART 2103 Foundations of Digital Editing](#)

[ART 2113 Introduction to Cinema](#)

[ART 2123 Cinematography](#)

[ART 3403 Film Theory and Criticism](#)

[ART 4163 Non-fiction Film Production](#)

[ART 4173 Narrative Film Production](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Graphic Design

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by either ART 2153, ART 2233, or ART 2343 in the program requirements.

2. Visual Arts Department Core - 15 hours

[ART 1123 Computer Graphics](#)

[ART 1133 Visual Art Foundation](#)

[ART 2213 Color Studies](#)

[ART 2403 Photo 1: Introduction to Photography](#)

One of the following:

[ART 2153 European Arts and Culture](#)

[ART 2163 Irish Arts and Culture](#)

[ART 2233 Art History I](#)

[ART 2343 European Art Tour](#)

3. Graphic Design Core - 36 hours

[ART 1243 Drawing I](#)

[ART 2253 Graphic Design I](#)

[ART 2263 Graphic Design II](#)

[ART 2273 3D Modeling](#)

[ART 2503 Typography](#)

[ART 3203 History of Advertising and Design](#)

[ART 3263 Graphic Design III](#)

[ART 3313 Interactive Design I](#)

[ART 4103 Portfolio and Presentation](#)

[ART 4413 Graphic Design IV](#)

[ART 4423 Internship](#)

Three hours from among the following:

[ART 2613 Digital Illustration](#)

[ART 3223 Advanced 3D Modeling](#)

[ART 3283 Graphic Design in Social Context](#)

[ART 3333 Interactive Design II](#)

[ART 3503 Motion Graphics](#)

[ART 3643 Introduction to Printmaking](#)

[ART 3653 Screenprinting](#)

4. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Graphic Design

The student must successfully complete a minimum of 21 hours.

[ART 1123 Computer Graphics](#)

[ART 1133 Visual Art Foundation](#)

[ART 2253 Graphic Design I](#)

[ART 2263 Graphic Design II](#)

[ART 2503 Typography](#)

[ART 3203 History of Advertising and Design](#)

[ART 3313 Interactive Design I](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Photography

1. [University Core Curriculum](#) - 52 hours

[The Arts](#) elective is covered by either ART 2153, ART 2233, or ART 2343 in the program requirements.

2. Visual Arts Department Core - 15 hours

[ART 1123 Computer Graphics](#)

[ART 1133 Visual Art Foundation](#)

[ART 2213 Color Studies](#)

[ART 2403 Photo 1: Introduction to Photography](#)

One of the following:

[ART 2153 European Arts and Culture](#)

[ART 2163 Irish Art and Culture](#)

[ART 2233 Art History I](#)

[ART 2343 European Art Tour](#)

3. Photography Core - 36 hours

[ART 2253 Graphic Design I](#)

[ART 2463 Photo 2: Traditional Darkroom](#)

[ART 3153 Photo 3: Digital Darkroom](#)

[ART 3523 Lighting for Photography and Cinema](#)

[ART 4103 Portfolio and Presentation](#)

[ART 4133 Fine Art Photography](#)

[ART 4183 Social Documentary Photography](#)

[ART 4353 Commercial Studio Photography](#)

[ART 4423 Internship](#)

Three of the following:

[ART 2263 Graphic Design II](#)

[ART 3203 History of Advertising and Design](#)

[ART 3313 Interactive Design I](#)

[ART 3563 History of Photography](#)

[ART 3573 Alternative Darkroom](#)

[ART 4963 Senior Comprehensive Project](#)

4. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for Minor in Photography

The student must successfully complete a minimum of 21 hours.

[ART 1133 Visual Art Foundation](#)

[ART 2403 Photo 1: Introduction to Photography](#)

[ART 4133 Fine Art Photography](#)

[ART 4183 Social Documentary Photography](#)

[ART 4353 Commercial Studio Photography](#)

Six hours from among the following:

[ART 2233 Art History I](#)

[ART 2463 Photo 2: Traditional Darkroom](#)

[ART 3153 Photo 3: Digital Darkroom](#)

[ART 3523 Lighting for Photography and Cinema](#)

[ART 3563 History of Photography](#)

[ART 3573 Alternative Darkroom](#)

COLLEGE OF EDUCATION AND HUMAN SERVICES

Beard, Beschta, Bowden, Cornelius, Cunningham, Froman, Hall, Hill, Johnson, Matchell, Morgan, Murie, Odell, Simpson, J. Terrell (Dean), Trombley

The College of Education and Human Services at John Brown University consists of the departments of Counseling, Teacher Education, Family and Human Services, Kinesiology, Nursing, and Psychology.

The mission of the College of Education and Human Services is to equip servant leaders to pursue scientific understanding and service in the helping fields in response to the great commandments of loving God and loving people.

DEPARTMENT OF FAMILY AND HUMAN SERVICES

(SYMBOL: FAM)

Hall (department head)

The diaconal service of caring for widows, orphans, and the poor has historically been a ministry of the Church. The Department of Family and Human Services seeks to better equip for this service by offering a bachelor's program in Family and Human Services and a minor in Family and Human Services. This innovative curriculum, which follows the course guidelines of the National Council for Family Relations, incorporates Family and Human Services courses with course work from other departments to provide the student with theological, theoretical, and practical training. Students who have earned the degree in Family and Human Services serve in a variety of capacities such as family educators, family caseworkers, social workers, youth counselors, mental health technicians, dispute mediators, foster care caseworkers, and adoption and placement counselors. The degree in Family and Human Services provides an excellent foundation for graduate programs in marriage and family therapy, professional counseling, social work, and other related fields.

Student learning outcomes:

- Students will understand a biblical/theological approach to human services, illustrating truths found in Matthew 22: 37-40.
- Students will be capable of serving in professional helping positions.
- Students will be able to analyze, conduct, and present research relevant to the human services field of study.
- Students will develop the personal characteristics and skills of empathy, authenticity, and differentiation in order to promote holistic self-awareness and other awareness.

Requirements for the Bachelor of Science (B.S.) degree with major in Family and Human Services

1. [University Core Curriculum](#) - 49 hours

The [Social Science](#) elective is covered by ECN 2003 and the [Mathematics](#) elective is covered by PSY 2383 in the program requirements.

2. Required Major Field Courses - 55 hours

[CMN 1213 Christian Leadership and Service](#)

[ECN 2003 Basic Economics](#)

[FAM 2133 Introduction to Family Science](#)

[FAM 2313 Professional Ethics and Practice](#)

[FAM 2413 Developmental Psychology](#)

[FAM 3133 Marriage and Family Living](#)

[FAM 3223 Principles of Effective Parenting](#)

[FAM 3243 Family Sexuality](#)

[FAM 3413 Selected Topics](#)

[FAM 4113 Intercultural Family Seminar](#)

[FAM 4223 Introduction to Senior Seminar](#)

[FAM 4253 Family Communication](#)

[FAM 4433 Senior Seminar](#)

[FAM 4443 Critical Concerns with Adolescents](#)

[FAM 4453 Family Law and Society](#)

[PSY 1013 Introductory Psychology](#)

[PSY 2383 Statistics for the Behavioral Sciences](#)

Internship - 4 hours

[FAM 4611/12/14 Internship](#)

3. Students may choose to complete any two of the following concentrations, choosing nine unique hours from each. Students who do not select one of these options will fill their non-major requirements with a minor or electives. Students should consult with their advisor regarding those options:

A. Child and Adolescent Studies

[CMN 2133 Developing Relational Ministry](#)

[CMN 2463 Adolescent Culture](#)

[CMN 3273 Critical Concerns with Children](#)

[FAM 3273 Introduction to Therapeutic Play](#)

B. Psychology

[PSY 2233 Theories of Counseling](#)

[PSY 2393 Research Methods](#)

[PSY 3423 Social Psychology](#)

[PSY 4213 Abnormal Psychology](#)

C. Wilderness Counseling

[CMN 2223 Challenge Course Programs and Management](#)

[CMN 2373 Principles and Practices of Experiential Education](#)

[CMN 3213 Camp Leadership and Management](#)

[PSY 2233 Theories of Counseling](#)

D. Pre-Counseling

[CMN 4493 Ministering to Families across the Life Span](#)

[ICS 2113 Intercultural Communication](#)

[PSY 2233 Theories of Counseling](#)

[PSY 2243 Introduction to Therapeutic Interviewing](#)

E. Criminology

[POL 3133 Politics of Social Policy](#)

[POL 4243 Constitutional Law](#)

[PSY 4213 Abnormal Psychology](#)

[SST 1113 Introduction to Sociology](#)

F. Social Justice

[HST 2323 Poverty and Welfare in American History](#)

[POL 3133 Politics of Social Policy](#)

[POL 3213 Faith and Politics](#)

[POL 3423 Selected Topics in American Politics](#)

4. Electives as necessary to complete minimum total hours

Minimum total semester hours124

View 4-Year Plan

Requirements for minor in Family and Human Services

The student must successfully complete a minimum of 18 hours beyond the [Core](#).

Required Courses - 15 hours

[FAM 2133 Introduction to Family Science](#)

[FAM 2313 Professional Ethics and Practice](#)

[FAM 3133 Marriage and Family Living](#)

[FAM 3243 Family Sexuality](#)

[FAM 4253 Family Communication](#)

An additional three hours of approved electives from among [FAM](#) or [PSY 2393](#)

DEPARTMENT OF KINESIOLOGY

(SYMBOL: KIN)

Bowden (department head)

Humankind is made up of physical, social, spiritual and mental/emotional aspects that integrate to make each individual whole. The physiological benefits of exercise upon the human condition are well documented; moreover, research continues to demonstrate the benefits of physical activity upon the social, spiritual and mental/emotional well-being of its participants. Along with our minds and spirits, we take our bodies to places of leisure, learning, work and worship. Therefore, attaining knowledge and skills related to physical health, fitness and wellness allows for the promotion of the total well-being of man. Thus, it is the aim of the Kinesiology Department to:

- 1) Promote the benefits of an active well lifestyle to the campus community.

- 2) Prepare students who wish to attend graduate, allied health and professional schools.
- 3) Prepare students for professions related to health, physical fitness and wellness.

The Department of Kinesiology offers the Bachelor of Science degree in Kinesiology with emphases in Health and Wellness, and Sports Medicine. The baccalaureate curriculum may lead to entry into professional degree programs in the allied health professions, such as athletic training or physical therapy, occupational therapy, as well as graduate studies in exercise physiology, health and wellness, kinesiology, sports psychology, and other related fields. It also prepares students to conduct individual exercise programs and fitness testing.

Student Learning Outcomes

1. Students will demonstrate core knowledge expected within the related Kinesiology fields.
2. Students will design, implement, and evaluate programs for wellness, health, and physical fitness assessments.
3. Students will demonstrate knowledge of cognitive subject matter as described in the clinical proficiencies section in the Athletic Training Education Competencies, 5th edition.
4. Students will incorporate decision making, skill application, and attitudes/values consistent within the framework of the psychomotor and affective domain as described in the Athletic Training Education Competencies, 5th edition.
5. Students will perform and respond as a professional in the related field(s) of Kinesiology.

Requirements for the Bachelor of Science (B.S.) degree with major in Kinesiology

1. [University Core Curriculum](#) - 44 hours

The [Wellness](#) elective is covered by KIN 1002, the [Life Science](#) elective is covered by either BIO 1003 or BIO 1124 (BIO 1124 is required in the Sports Medicine Emphasis), the [Physical Science](#) elective is covered by one of GSC 1023, CHM 1014, CHM 1124 (CHM 1124 is required in the Sports Medicine Emphasis), or PHY 1114, and the [Social Science](#) elective is covered by PSY 1013 in the program requirements.

2. Kinesiology Major Core - 23 hours

[KIN 1002 Wellness for Life](#)

[KIN 2103 First Aid, Safety, and CPR](#)

[KIN 2123 Care of Athletic Injuries](#)

[KIN 3303 Nutrition for Health and Human Performance](#)

[KIN 4423 Biomechanics](#)

[KIN 4433 Exercise Physiology](#)

[KIN 4443 Management in Health and Sport](#)

[PSY 1013 Introductory Psychology](#)

3. Professional emphasis in Health and Wellness or Sports Medicine

A. Health and Wellness Emphasis – 17-19 hours

[KIN 1012 Lifetime Fitness](#)

[KIN 3313 Exercise Prescription Techniques](#)

[KIN 3333 Sport and Exercise Psychology](#)

[KIN 3353 Theory of Coaching](#)

One of the following:

[BIO 1003 Biological Science](#)

[BIO 1124 Cell Biology](#)

One of the following

[CHM 1014 Fundamentals of Chemistry](#)

[CHM 1124 General Chemistry I](#)

[GSC 1023 Physical Science](#)

[PHY 1114 Fundamentals of Physics I](#)

B. Sports Medicine Emphasis – 26 hours

[BIO 1124 Cell Biology](#)

[BIO 3514 Human Anatomy](#)

[BIO 3524 Human Physiology](#)

[CHM 1124 General Chemistry I](#)

[KIN 2181 Medical Terminology](#)

[KIN 3123 Injury Evaluation of the Lower Extremity](#)

[KIN 3133 Injury Evaluation of the Upper Extremity](#)

[KIN 3483 Therapeutic Exercises and Modalities](#)

4. Kinesiology Major Electives - 6 hours (minimum)

Upper-division [Kinesiology](#) courses or

[KIN 3491-3493 Internship](#) (maximum six hours allowed)

5. Minor field or electives, to fulfill prerequisites for graduate school in consultation with academic advisor, as necessary to complete minimum total hours.

Minimum total semester hours 124

View 4-Year Plan - Health/Wellness

View 4-Year Plan - Sports Medicine

Requirements for minor in Kinesiology

The student must successfully complete a minimum of 18 hours.

[KIN 2103 First Aid, Safety, and CPR](#)

An additional 15 hours of [KIN](#) courses

At least nine hours must be upper-division courses

DEPARTMENT OF NURSING

(SYMBOL: NUR)

Odell (director)

The Department of Nursing develops graduates who:

1. Integrate personal spiritual beliefs and values that honor God into the practical ministry of nursing, treating others with mercy and dignity, and demonstrating holistic principles that impact professional practice decisions.
2. Integrate the foundational knowledge derived from a liberal arts education into nursing practice.
3. Practice with knowledge, skills, and attitudes to provide safe, evidence-based, patient-centered care to assist individuals, families, communities, and populations to continually progress toward fulfillment of their human capacities.

4. Demonstrate communication, teamwork, and collaboration among inter-professional healthcare disciplines to promote optimal patient outcomes.
5. Demonstrate appropriate uses of patient care technologies and information management.
6. Apply clinical reasoning and judgments in decision-making considering the complex environments for safe nursing practice.
7. Engage in quality improvement activities to improve patient outcomes.
8. As a nurse generalist, incorporate leadership, management, legal, and ethical guidelines while applying professional standards of nursing practice.

Admission Criteria for the Nursing Program:

Academic admission requirements for the Nursing major (upper-division courses) are as follows:

1. Applicants, if asked, will participate in a personal interview with at least one representative from the Department of Nursing.
2. Applicants will have completed all of the courses outlined in the program of study for the freshman and sophomore years with a minimum GPA of 2.8 (based on a 4.0 scale) prior to beginning upper-division course work.
3. Applicants will achieve a combined science GPA of 2.5 (based on a 4.0 scale) or better in the following courses, or their equivalents:

BIO 1124 Cell Biology (with Lab)

CHM 1014 Fundamentals of Chemistry (with Lab) or CHM 1124 General Chemistry I (with Lab)

BIO 2334 Fundamentals of Microbiology (with Lab), or BIO 3334 Microbiology (with Lab)

BIO 2514* Anatomy and Physiology I (with Lab)

BIO 2524* Anatomy and Physiology II (with Lab)

* Must earn a grade of "B-" or higher in these designated courses.

Graduation Requirements for the BSN:

1. Satisfactory completion of all required coursework with a minimum, cumulative GPA of 2.5 and all NUR courses must have a grade of 2.0/C or better.
2. Submission of a portfolio, including exemplars of work and progress, which demonstrate evidence of growth and development as a student nurse and readiness to enter professional practice.
3. Completion of a standardized exam (NCLEX-RN readiness/predictor) and a passing score as outlined in the *Guidebook for Nursing Students* (company and score required TBD).

4. Evidence of meeting the eligibility requirements for the NCLEX-RN application and state board licensure processes.

Requirements for the Bachelor of Science in Nursing (B.S.N.) degree

1. University Core Curriculum - 35 hours

The [Wellness](#) elective is covered by NUR 1022, the [Life Science](#) elective is covered by BIO 1124, the [Physical Science](#) elective is covered by one of CHM 1014 or CHM 1124, the [Mathematics](#) elective is covered by either MTH 2003, MTH 2103, or PSY 2383, the [Social Science](#) elective is covered by ED 2143 or PSY 2413, and the [Global Studies](#) elective is covered by ICS 2113 in the program requirements.

EGL 4003 Masterpieces of Literature is not required for this program.

2. Required Major Field Courses - 93 hours

[BIO 1124 Cell Biology](#)

[BIO 2334 Fundamentals of Microbiology](#)

[BIO 2514 Anatomy and Physiology I](#)

[BIO 2524 Anatomy and Physiology II](#)

[ICS 2113 Intercultural Communications](#)

[NUR 1022 Concepts in Community Health & Wellness](#)

[NUR 2113 Overview of Professional Nursing](#)

[NUR 2134 Informatics, Inquiry & Evidence-Based Practice](#)

[NUR 3112 Pharmacology I](#)

[NUR 3114 Pathophysiology](#)

[NUR 3115 Foundations of Professional Nursing Practice](#)

[NUR 3124 Health Assessment & Therapeutic Interventions](#)

[NUR 3222 Pharmacology 2](#)

[NUR 3228 Concepts of Professional Nursing 1](#)

[NUR 3338 Concepts of Professional Nursing 2](#)

[NUR 4108 Concepts of Professional Nursing 3](#)

[NUR 4110 Capstone in Nursing](#)

[NUR 4214 Concepts of Nursing Leadership](#)

One of the following:

[CHM 1014 Fundamentals of Chemistry](#)

[CHM 1124 General Chemistry I](#)

One of the following:

[ED 2143 Learning Theories and Developmental Psychology](#)

[PSY 2413 Developmental Psychology](#)

One of the following:

[MTH 2003 Introduction to Statistics](#)

[MTH 2103 Applied Statistics for Scientists](#)

[PSY 2383 Statistics for the Behavioral Sciences](#)

3. Complete a standardized achievement test designated by the department

Minimum total semester hours 128

Upper-division nursing requires admission following pre-professional study so graduation cannot be guaranteed to new freshmen.

[View suggested 4-Year Plan](#)

DEPARTMENT OF PSYCHOLOGY

(SYMBOL: PSY)

Simpson (department head)

The Department of Psychology offers courses designed to introduce students to the empirical study of behavior and mental processes from the perspective of both natural revelation (scientific investigation) and special revelation (scriptural principles). The Psychology degree is solidly grounded in the Christian liberal arts tradition.

Students completing the Psychology degree at John Brown University will be grounded in the core tenets of the discipline of psychology while gaining practical training and experience in psychology

through supervised field experiences. Another key aspect of the Psychology major is a consistent and intentional integration of a Christian worldview with the discipline.

Psychology students are prepared both for graduate training in psychology or related fields and for service in a variety of community mental health, Church-based and other social service settings, working under supervisors with advanced graduate training. Psychology faculty mentors provide students with advice and assistance in the transition to graduate study or employment. Graduates from the department have been successful in gaining entry to graduate schools in psychology, counseling, and social work as well as law school. Employment as a psychologist or licensed counselor will require further graduate study in psychology or social work but the psychology baccalaureate degree is valued by employers for providing an excellent liberal arts foundation for careers in business, church work, welfare work, or any other area where an understanding of the human mind and interpersonal relationships may be beneficial.

Student Learning Outcomes

Students graduating with a major in Psychology will:

1. Demonstrate knowledge of the field.
2. Demonstrate critical thinking skills.
3. Demonstrate skill in writing (grammar, syntax, etc.).
4. Evidence thoroughness in literature reviews.
5. Demonstrate sophistication in research skills and methodology.
6. Integrate their faith with the principles of psychology.
7. Be prepared to gain admittance and succeed in graduate school.

Requirements for the Bachelor of Science (B.S.) degree with major in Psychology

1. [University Core Curriculum](#) - 49 hours

The [Mathematics](#) elective is covered by PSY 2383 and the [Social Science](#) elective is covered by PSY 1013 in the program requirements.

2. Courses Specified by this Department - 40 hours

[PSY 1013 Introductory Psychology](#)

[PSY 1101 Orientation to Psychology](#)

[PSY 2383 Statistics for the Behavioral Sciences](#)

[PSY 2393 Research Methods](#)

[PSY 3493 Research Seminar](#)

[PSY 4213 Abnormal Psychology](#)

[PSY 4493 Seminar in Psychology](#)

One of the following:

[PSY 3413 Selected Topics](#)

[PSY 3333 Sport and Exercise Psychology](#)

Two of the following:

[PSY 4333 Cognitive Psychology](#)

[PSY 4343 Theories of Learning](#)

[PSY 4353 Behavioral Neuroscience](#)

Two of the following:

[PSY 2413 Developmental Psychology](#)

[PSY 3303 Theories of Personality](#)

[PSY 3423 Social Psychology](#)

Two of the following:

[PSY 2233 Theories of Counseling](#)

[PSY 2243 Introduction to Therapeutic Interviewing](#)

[PSY 4263 Field Experience](#)

3. Students must complete one of the following concentrations. This concentration requirement can be fulfilled by the completion of a minor, a double major, or a dual degree:

Family and Human Services Concentration - 12 hours

[FAM 2133 Introduction to Family Science](#)

[FAM 3133 Marriage and Family Living](#)

[FAM 3243 Family Sexuality](#)

[FAM 4253 Family Communication](#)

Counseling Concentration - 12 hours (hours count toward both undergraduate Psychology degree and graduate Counseling degree) chosen from among the following options:

[CNL 7113 Principles of Family Therapy](#)

[CNL 7133 Theories and Techniques of Counseling](#)

[CNL 7353 Introduction to Play Therapy](#)

[CNL 7613 Family of Origin](#)

[CNL 7623 Family Systems](#)

[CNL 8073 Diagnosis and Case Management](#)

Elective Concentrations by Specialty Area - 12 hours (each area)

Art:

[ART 1133 Visual Art Foundation](#)

[ART 1243 Drawing I](#)

[ART 2213 Color Studies](#)

[ART 2233 Art History I](#)

Biology:

[BIO 1124 Cell Biology](#)

[BIO 2514 Anatomy and Physiology I](#)

[BIO 2524 Anatomy and Physiology II](#)

Child:

[CMN 2133 Developing Relational Ministry](#)

[CMN 3273 Critical Concerns with Children](#)

[FAM 3223 Principles of Effective Parenting](#)

[FAM 3273 Introduction to Therapeutic Play](#)

Child and Adolescent Development:

[CMN 2463 Adolescent Culture](#)

[CMN 3273 Critical Concerns with Children](#)

[CMN 4443 Critical Concerns with Adolescents](#)

[FAM 3273 Introduction to Therapeutic Play](#)

Communication:

[COM 1173 Faith, Media, and Calling](#)

[COM 2523 Public Speaking](#)

[COM 3453 Social Movements](#)

[One 3-hour COM elective](#)

English:

[EGL 2273 Introduction to Creative Writing](#)

[EGL 2393 Advanced Composition](#)

Two 3-hour Literature elective courses

Foreign Language:

Twelve hours from [LS-1000, LS-2000](#) level courses, including three hours at 2000 level; or

Six hours of [LS-2000](#) level courses

Intercultural:

[ICS 2113 Intercultural Communication](#)

[ICS 2123 Cultural Anthropology](#)

[ICS 4133 Intercultural Leadership Skills](#)

[SST 1113 Introduction to Society](#)

Law:

[EGL 2393 Advanced Composition](#)

[FAM 4453 Family Law and Society](#)

[POL 4243 Constitutional Law](#)

[POL 4313 Christianity and the Law](#)

Leadership and Management:

[LDR 2563 Leadership Competencies](#)

[LDR 3563 Organizational Leadership](#)

[MGT 2173 Principles of Management](#)

[MGT 3513 Human Resource Management](#)

Social Justice:

[COM 3453 Social Movements](#)

[HST 2323 Poverty and Welfare in American History](#)

[POL 3133 Politics of Social Policy](#)

[POL 3213 Faith and Politics](#)

Wilderness Counseling:

[CMN 2223 Challenge Course Programs and Management](#)

[CMN 2283 Outdoor Recreation Skills](#)

[CMN 2373 Principles and Practices of Experiential Education](#)

[CMN 3213 Camp Leadership and Management](#)

4. Electives as necessary to complete minimum semester hours

5. Achievement Test-all psychology majors are required to complete a standardized achievement test designated by the department

Minimum total semester hours 124

Note: Students who anticipate attending graduate school should consider taking at least some of the following courses:

[BIO 3514 Human Anatomy](#)

[BIO 3524 Human Physiology](#)

[COM 2523 Public Speaking](#)

[EGL 2393 Advanced Composition](#)

[View 4-Year Plan](#)

Requirements for minor in Psychology

The student must successfully complete a minimum of 18 hours.

Required Courses - 9 hours

[PSY 1013 Introductory Psychology](#)

[PSY 2383 Statistics for the Behavioral Sciences](#)

[PSY 2393 Research Methods](#)

An additional nine hours selected from [PSY](#)

At least six hours must be upper-division courses

DEPARTMENT OF TEACHER EDUCATION

(SYMBOL: ED)

Matchell (department head)

Mission

The Department of Teacher Education offers experiences and courses designed to provide professional preparation for students who plan to teach in public or private (including Christian and international) schools. The Department is committed to developing competent teachers who are ready DAY 1 to teach the world, wisely teaching all learners God calls them to shepherd.

The programs of the Department are approved by the Arkansas State Department of Education and are accredited by the Council for the Accreditation of Educator Preparation (CAEP), the foremost accrediting agency for teacher education in the United States <http://caepnet.org>, (202) 223-0077. Successful completion of an Education Program at John Brown University prepares candidates for a standard license in the state of Arkansas. Candidates who plan to teach in states other than Arkansas should transfer the Arkansas licensure and meet any specific licensure requirements of the states where they expect to teach. The majority of states have reciprocity with Arkansas, which means licensure officials in these states will automatically grant licensure to individuals transferring their standard Arkansas license.

The university's Education Programs are significantly enhanced through an active partnership of shared decision making with the Siloam Springs School District and the community. The Professional Development School partnership provides for the simultaneous support and renewal of both teacher preparation and the K-12 programs of the school district. Beginning the freshman year, candidates actively participate in local preschools and in the K-12 classrooms of the school district, where they provide valuable assistance to preschool and K-12 programs while focusing on all students' learning, and experience embedded field experiences where JBU education classes are taught at the local schools. Simultaneously, experienced teachers in the schools serve as clinical faculty providing important practical experiences and instruction for the candidates.

The Department of Teacher Education, in keeping with the overall goals of the university, expects graduates to demonstrate the following broad learner outcomes:

1. Candidates will demonstrate proficiency with content knowledge in their licensure area by performing well on national licensure exams.
2. Candidates will demonstrate proficiency with content knowledge by performing well on project-based assessments.
3. Candidates will demonstrate ability to plan and implement appropriate teaching and learning experiences by performing well on project-based assessments.
4. Candidates will demonstrate pedagogical and professional knowledge, skills, and dispositions applied effectively in practice during field experiences and internship.
5. Candidates will demonstrate knowledge of their effect on individuals and corporate learning in their classrooms (field experiences and internship).

NOTE: John Brown University candidates wishing to take professional education and major field courses off campus or through correspondence must obtain, in advance, written permission from the department head and the Registrar's Office.

Progression within the Education Program

Candidates for a teaching license are expected to carefully plan their academic programs beginning in their freshman year and to have their plan approved by an education advisor. Candidates are required to pass through three transition points and interviews before being admitted into their internship semester. The following sequence and policies are applicable to all levels and fields of licensure:

1. **Transition 1.** Admission to courses requiring Transition 1 and successful field experience. Specific requirements include the following:
 - a. Meet minimum JBU requirements for ACT/SAT scores: ACT=20, SAT=1020 (effective March 2016).
 - b. Complete required background check.
 - c. Permission to release personal information to be used in appropriate situations to school personnel.
 - d. Designated requirements in Taskstream (specific requirement information is available in the JBU Teacher Education Department office).
 - e. Evidence of dispositional growth using Teacher Candidate Dispositional Rubric.
 - f. Post interview-recommendation to progress in program.

g. Praxis I (CORE) scores must meet the state minimum requirements in reading, writing, and mathematics. Information and test administration schedules are available on the [Educational Testing Service](#) (ETS) web site www.ets.org. Costs are the responsibility of the candidate.

2. Transition 2. Admission to courses requiring Transition 2 and field experiences. Specific requirements for admission include the following:

- a. Completion of the required English, mathematics, and speech courses as appropriate, with a grade of 'C/2.0' or better in each.
- b. Designated requirements in Taskstream (specific requirement information is available in the Department of Teacher Education office).
- c. Evidence of dispositional growth using Teacher Candidate Dispositional Rubric.
- d. Post interview-recommendation to progress in program.

3. Formal admission:

- a. A 2.7 cumulative grade point average.
- b. Passed AR Core Score or completed Professional Development Plan with state cut off.
- c. Successfully completed interviews for Transitions 1 and 2.
- d. Approved by the Education Department and PDS Advisory Committee.

4. Continuation in the program. Candidates must maintain the 2.7 grade-point standard throughout the program and demonstrate commitment to professional growth. A candidate failing to maintain these requirements will be placed on departmental probation and must meet the conditions of a Professional Development Plan specified by the Department, or admission will be rescinded.

5. Transition 3. Admission to Internship. Internship is normally taken during the senior year. Prior to registration for Internship, candidates must meet the following requirements:

- a. Submission of a formal application (and corresponding paperwork) by the specified date during the semester prior to Internship. (Application forms and dates for submission are sent via the Education Office.)
- b. Completion of specified prerequisites (see course descriptions for Internships).
- c. Completion of a minimum of 70% of required Teaching Field courses.
- d. A 2.7 or higher cumulative grade-point average.
- e. A 2.7 or higher cumulative grade-point average in Teaching Field courses, with a minimum grade of 'C/2.0' in each.

- f. A 2.7 or higher cumulative grade-point average in all Professional Education courses completed, with a minimum grade of 'C/2.0' in each.
- g. Completion of CPR/First Aid certification (age appropriate) before beginning Internship.
- h. Designated requirements in Taskstream (specific requirement information is available in the Department of Teacher Education office).
- i. Evidence of dispositional growth using Teacher Candidate Dispositional Rubric.
- j. Successfully completed interview for Transition 3.
- k. Approved by the Education Department and PDS Advisory Committee.
- l. Praxis II Series - (Documentation of passing the Praxis II Content Knowledge and having registered for Praxis II Pedagogy prior to Internship. Music Education candidates are required to provide documentation of passing the Praxis II Content Knowledge during Internship.) All candidates are required to take the Educational Testing Service Praxis II Series consisting of professional and teaching field tests related to each area in which the candidates are seeking to be licensed. The examination is required for licensure and a report of scores must be sent to the Department of Teacher Education and the Arkansas State Department of Education. The "*Detailed Information*" portion of the Praxis II is kept on file for the purpose of analysis of candidates' needs. Costs are the responsibility of the candidate.

Due to the nature of the Internship (a full-time responsibility) candidates are not to be concurrently enrolled for other course work (including correspondence or online courses). Athletes, choir members, etc., are not permitted to schedule internship during a semester of participation in a sport or other activity which would interfere with this capstone professional experience, unless arranged with the head of the Department of Teacher Education. Other responsibilities (work, leadership, and required involvement) may not exceed 10 hours weekly and may not conflict with school responsibilities.

Candidates must successfully complete all Transition Point interviews and be formally admitted into the Department of Teacher Education Program before they can enroll in the Internship and Seminar courses.

6. Transition 4: Graduation requirement.

- a. Satisfaction of all graduation requirements for the [Bachelor of Science in Education](#) (B.S.E.) or [Bachelor of Music Education](#) (B.Mus.Ed.) programs.
- b. Recommendation by the Department faculty upon completion of an Internship experience.
- c. Approval of PDS Advisory Board including evidence of passing Content Knowledge or Principles of Learning and Teaching Praxis II exams (i.e., registration form, ETS exam score report).
- d. A 2.7 cumulative grade-point average.

- e. A 2.7 in Teaching Field requirements, with a grade of 'C/2.0' or higher in each course.
- f. A 2.7 in Professional Education courses, with a grade of 'C/2.0' or higher in each course.

7. Program completion and eligibility for an initial license.

- a. Graduation.
- b. Evidence of meeting all Arkansas qualifying scores on the Praxis II Series for licensure.

Endorsement Options:

TESOL (Teaching English to Speakers of Other Languages) Endorsement for all licenses:

[ED 3563 Second Language Acquisition for Teachers](#)

[ED 3583 Curriculum and Instruction: TESOL](#)

[EGL 3363 Advanced English Grammar](#)

[ICS 2113 Intercultural Communication](#)

NOTE: In order to receive the TESOL Endorsement, candidate must maintain a grade of "C" (2.0) or better in the courses.

Education Minor

The Department of Teacher Education offers an Education minor. Though the minor is not recognized for teacher licensure, the package of course work does provide a strong educational background for whatever teaching one may encounter: internationally, at the university level, in a non-traditional program, or in any career which would involve teaching others.

Content areas other than English, mathematics, or social studies must be approved by the Department of Teacher Education.

Requirements for minor in Education

Requirements for minor in Education – 18 hours

Required Courses - 6 hours

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 2713 Differentiated Learning](#)

Select from the following options – 12 hours:

[ED 2723 Special Education](#)

[ED 3113 Framework for Teaching - Secondary Education](#)

[ED 3123 Framework for Teaching 1 - Elementary Education](#)

[ED 3133 Framework for Teaching 2 - Elementary Education](#)

[ED 3153 Disciplinary Literacy](#)

[ED 3323 Elementary Language Arts \(Blk 1\)](#)

[ED 3374 Teaching Elementary Reading \(Blk 1\)](#)

[ED 3583 Curriculum & Instruction: TESOL](#)

[ED 4353 Teaching Elementary Writing \(Blk 2\)](#)

[ED 4363 Teaching Elementary Science \(Blk 2\)](#)

[ED 4371 Remedial Reading Tutoring \(Blk 2\)](#)

[ED 4383 Teaching Elementary Mathematics \(Blk 2\)](#)

[ED 4613 Secondary Education: Content and Pedagogy – Social Studies](#)

OPTIONAL: Recommended for those students who would consider pursuing licensure in the future:

1. Pass the JBU Praxis I Core tests in reading, writing, and mathematics.
2. Pass field experience as specified within certain education courses.
3. Pass the Praxis II Content test.

Transfer Students

The credentials of students transferring from an accredited college or university will be evaluated by the Registrar's Office and by the head of the Department of Teacher Education for appropriate placement. Transfer students or JBU students transferring from another major may take restricted Professional Education courses their first semester with the approval of their education advisor. All exceptions required due to transfer or change of major will be submitted to the Department within the first semester for approval. All students transferring to Education will be expected to complete all program requirements in effect at the time of the transfer. Candidates must complete all appropriate transition points and necessary requirements as determined by the head of Teacher Education faculty.

Transfers from another college or university must spend a minimum of two semesters before application for internship.

PROGRAMS LEADING TO SECONDARY LICENSURE (Grades 7-12)

Requirements for the Bachelor of Science in Education (B.S.E.) degree with major in an approved teaching field

ENGLISH EDUCATION

1. [University Core Curriculum](#) - 43 hours

The [Social Science](#) elective is covered by ED 2143 in the program requirements. [EGL 4003](#) Masterpieces of Literature is covered by one of EGL 2213 or EGL 2223 and one of EGL 2413, EGL 3313, EGL 3333, EGL 3353, EGL 3323, or EGL 3343 in the program requirements. [EGL 1013](#) and [1023](#) are included in the program requirements.

2. Other Required Courses – 3 hours

Approved First Aid/CPR Course (age appropriate) before Internship

[COM 2523 Public Speaking](#)

3. Professional Education - 34 hours

[ED 1111 Seminar in Education](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 2713 Differentiated Learning](#)

[ED 3113 Framework for Teaching - Secondary Education](#)

[ED 3153 Disciplinary Literacy](#)

[ED 4623 Secondary Education: Content and Pedagogy - English](#)

[ED 4880 Internship: Secondary](#)

[ED 4881 Seminar: Secondary](#)

[ED 4911 School Experience](#)

[ED 4912 Education Capstone](#)

4. English Teaching Field - 40 hours

[EGL 1013 English I: Composition](#)

[EGL 1023 English II: Literary Analysis and Research](#)

[EGL 2243 Young Adult Literature](#)

[EGL 2273 Introduction to Creative Writing](#)

[EGL 2393 Advanced Composition](#)

[EGL 2413 American Literature to 1900](#)

[EGL 3321 Writing Center Practicum](#)

[EGL 3333 Shakespearean Drama](#)

[EGL 3363 Advanced English Grammar](#)

[EGL 3713 Literary Theory](#)

[LS 2173 Introduction to Linguistics](#)

One of the following:

[EGL 2213 World Literature I](#)

[EGL 2223 World Literature II](#)

One of the following:

[EGL 4473 Creative Writing Workshop: Selected Genres \(Fiction, Poetry, or Non-Fiction\)](#)

[EGL 4483 Selected Topics: Literature](#)

One of the following:

[EGL 3313 Medieval Literature](#)

[EGL 3323 Renaissance Literature](#)

[EGL 3343 Restoration and Eighteenth Century Literature](#)

[EGL 3353 Nineteenth Century British Literature](#)

6. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

MATHEMATICS EDUCATION

1. [University Core Curriculum](#) - 46 hours

The [Mathematic](#) elective is covered by MTH 1134, the [Physical Science](#) elective is covered by PHY 2114, and the [Social Science](#) elective is covered by ED 2143 in the program requirements.

2. Other Required Courses - 3 hours

Approved First Aid/CPR Course (age appropriate) before Internship

[COM 2523 Public Speaking](#)

3. Professional Education - 34 hours

[ED 1111 Seminar in Education](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 2713 Differentiated Learning](#)

[ED 3113 Framework for Teaching - Secondary Education](#)

[ED 3153 Disciplinary Literacy](#)

[ED 4633 Secondary Education: Content and Pedagogy - Mathematics](#)

[ED 4880 Internship: Secondary](#)

[ED 4881 Seminar: Secondary](#)

[ED 4911 School Experience](#)

[ED 4912 Education Capstone](#)

4. Mathematics Teaching Field - 38 hours

[GSC 4133 Faith and Science](#)

[MTH 1134 Calculus I](#)

[MTH 1144 Calculus II](#)

[MTH 2111 Problem-Solving Seminar](#)

[MTH 2114 Linear Algebra and Differential Equations](#)

[MTH 2123 Vector Calculus](#)

[MTH 3103 Foundations of Mathematics](#)

[MTH 3143 Topics in Mathematics Education](#)

[MTH 3153 Foundations of Geometry](#)

[MTH 3183 Probability and Statistics](#)

[MTH 4123 Abstract Algebra](#)

[PHY 2114 General Physics I](#)

5. Electives as necessary to complete minimum total hours

NOTE: ED 3583 Curriculum and Instruction: TESOL is recommended for Mathematics Education majors.

Minimum total semester hours 124

[View 4-Year Plan](#)

SOCIAL STUDIES EDUCATION

1. [University Core Curriculum](#) - 37 hours

The [Philosophy](#) elective is covered by POL 3003, the [Social Science](#) elective is covered by ED 2143, and the [Global Studies](#) elective is covered by either SST 1133 or SST 1143 in the program requirements. [HST 1013](#), [1023](#), and [POL 2013](#) are included in the program requirements.

2. Other Required Courses - 3 hours

Approved First Aid/CPR Course (age appropriate) before Internship

[COM 2523 Public Speaking](#)

3. Professional Education - 34 hours

[ED 1111 Seminar in Education](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 2713 Differentiated Learning](#)

[ED 3113 Framework for Teaching - Secondary Education](#)

[ED 3153 Disciplinary Literacy](#)

[ED 4613 Secondary Education: Content and Pedagogy - Social Studies](#)

[ED 4880 Internship: Secondary](#)

[ED 4881 Seminar: Secondary](#)

[ED 4911 School Experience](#)

[ED 4912 Education Capstone](#)

4. Social Studies Teaching Field - 54 hours

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[HST 1013 Western Civilization I](#)

[HST 1023 Western Civilization II](#)

[HST 2113 United States History to 1865](#)

[HST 2123 United States History since 1865](#)

[HST 2153 Twentieth Century World History](#)

[HST 2413 Arkansas History](#)

[POL 2013 American Government](#)

[POL 3003 Political Philosophy](#)

[PSY 1013 Introductory Psychology](#)

[SST 1113 Introduction to Sociology](#)

[SST 1133 Cultural Geography](#)

[SST 1143 World Regional Geography](#)

[SST 2123 Cultural Anthropology](#)

One of the following (minimum 3 hours):

[HST 2213 Study of History](#)

[HST 2243 Middle Ages](#)

[HST 2323 Poverty and Welfare in American History](#)

[HST 2523 Classical World](#)

[HST 3263 Slavery and Race in American History](#)

[HST 3273 America at War](#)

[HST 3313 Second World War](#)

[HST 3423 Leaders in History](#)

[HST 3433 History of the Middle East, 600-1800](#)

[HST 3443 The Modern Middle East](#)

[HST 3463 African Civilization to 1850](#)

[HST 3473 African Civilization since 1850](#)

One of the following:

[HST 4613 Seminar in History](#)

[POL 4613 Research Seminar](#)

One of the following:

[POL 3353 International Relations](#)

[POL 4243 Constitutional Law](#)

Minimum total semester hours 128

[View 4-Year Plan](#)

Requirements for the Bachelor of Music Education (B.Mus.Ed.) degree with major in Music, K-12 Certification

See [B.Mus.Ed. degree with major in Music Education](#) under the Division of Communication and Fine Arts.

[View 4-Year Plan](#)

PROGRAMS LEADING TO ELEMENTARY EDUCATION (K-6)

Requirements for the Bachelor of Science in Education (B.S.E.) degree with major in Elementary Education

1. [University Core Curriculum](#) - 43 hours

The [Life Science](#) elective is covered by GSC 1043, the [Physical Science](#) elective is covered by GSC 1053, the [Global Studies](#) elective is covered by SST 1133 or 1143, and the [Social Science](#) elective is covered by ED 2143 in the program requirements.

2. Professional Education - 81 hours

Approved First Aid/CPR Course (age appropriate) before Internship

[COM 2523 Public Speaking](#)

[ED 1111 Seminar in Education](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 2713 Differentiated Learning](#)

[ED 2723 Special Education](#)

[ED 3123 Framework for Teaching 1 – Elementary Education](#)

[ED 3133 Framework for Teaching 2 – Elementary Education](#)

[ED 3323 Elementary Language Arts \(Blk 1\)](#)

[ED 3374 Teaching Elementary Reading \(Blk 1\)](#)

[ED 3583 Curriculum and Instruction: TESOL](#)

[ED 4353 Teaching Elementary Writing \(Blk 2\)](#)

[ED 4363 Teaching Elementary Science \(Blk 2\)](#)

[ED 4371 Remedial Reading Tutoring \(Blk 2\)](#)

[ED 4383 Teaching Elementary Mathematics \(Blk 2\)](#)

[ED 4850 Internship: Elementary Education](#)

[ED 4851 Seminar: Elementary Education](#)

[ED 4911 School Experience](#)

[ED 4912 Education Capstone](#)

[EGL 2393 Advanced Composition](#)

[GSC 1043 Elementary Science Content I](#)

[GSC 1053 Elementary Science Content II](#)

[HST 2413 Arkansas History](#)

[MTH 2143 Mathematics Structures I](#)

[MTH 2183 Mathematics Structures II](#)

One of the following:

[HST 2113 U.S. History to 1865](#)

[HST 2123 U.S. History Since 1865](#)

One of the following:

[SST 1133 Cultural Geography](#)

[SST 1143 World Regional Geography](#)

4. Optional Endorsement

A. Endorsement in Teaching English to Speakers of Other Languages (TESOL) - 12 hours

[ED 3563 Second Language Acquisition for Teachers](#)

[ED 3583 Curriculum and Instruction: TESOL](#)

[EGL 3363 Advanced English Grammar](#)

[ICS 2113 Intercultural Communication](#)

NOTE: All courses in the Endorsement must have a grade of "C" (2.0) or better.

5. Optional Individualized Emphasis - 12 hours constructed with student's advisor and approved by Department of Teacher Education faculty.

Minimum total semester hours 124

Minimum total semester hours (with an optional endorsement or emphasis) 136

[View 4-Year Plan TESOL](#)

Education Studies

This program has been developed for the student who would like to develop teaching skills, but does not plan to pursue a position in a school where a teaching license would be required. This might include obtaining positions working in some private schools, curriculum writing, camp staff positions, training positions, or working with children outside of public education. Such a program should be designed in consultation with a faculty advisor after the student has had significant college

experience. TESOL and Intercultural Studies minors would pair well with this degree. This degree does not lead to a teaching license.

Education Studies Program Outcomes

The Department of Teacher Education, in keeping with the overall goals of the university, expects Education Studies graduates to demonstrate the following broad learner outcomes.

1. Candidates will demonstrate proficiency with content knowledge by maintaining an overall 2.0 GPA.
2. Candidates will demonstrate proficiency with content knowledge by performing well on project-based assessments.
3. Candidates will demonstrate ability to plan and implement appropriate teaching and learning experiences by performing well on project-based assessments.
4. Candidates will demonstrate pedagogical and professional knowledge, skills, and dispositions applied effectively in practice during field experiences.
3. Candidates will demonstrate knowledge of their effect on individuals and corporate learning on project-based assessments and in practice during field experiences.

Note: John Brown University candidates wishing to take professional education and major field courses off campus or through correspondence must obtain, in advance, written permission from the department head and the Registrar's Office.

Requirements for the Bachelor of Science (B.S.) degree with major in Education Studies

1. [University Core Curriculum](#) - 46 hours

The [Life Science](#) elective is covered by GSC 1043, the [Physical Science](#) elective is covered by GSC 1053, and the [Social Science](#) elective is covered by ED 2143 in the program requirements.

2. Professional Education - 45 hours

[COM 2523 Public Speaking](#)

[ED 1111 Seminar in Education](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 2713 Differentiated Learning](#)

[ED 3123 Framework for Teaching 1 – Elementary Education](#)

[ED 3133 Framework for Teaching 2 – Elementary Education](#)

[ED 3323 Elementary Language Arts \(Blk 1\)](#)

[ED 3374 Teaching Elementary Reading \(Blk 1\)](#)

[ED 4353 Teaching Elementary Writing \(Blk 2\)](#)

[ED 4363 Teaching Elementary Science \(Blk 2\)](#)

[ED 4371 Remedial Reading Tutoring \(Blk 2\)](#)

[ED 4383 Teaching Elementary Mathematics \(Blk 2\)](#)

[GSC 1043 Elementary Science Content I](#)

[GSC 1053 Elementary Science Content II](#)

[MTH 2143 Mathematics Structures I](#)

[MTH 2183 Mathematics Structures II](#)

3. Select 12 hours from one of the following concentrations (at least 6 hours must be upper division and all course prerequisites must be honored):

A. Christian Ministry

[CMN 1213 Christian Leadership and Service](#)

[CMN 2263 Discipleship and Evangelism](#)

[CMN 2373 Principles and Practices of Experiential Education](#)

[CMN 3153 Philosophy and Methods of Outdoor Education](#)

[CMN 3213 Camp Leadership and Management](#)

[CMN 3273 Critical Concerns with Children](#)

[RPH 3323 Philosophy of the Christian Faith](#)

B. Intercultural Studies

[ICS 2113 Intercultural Communication](#)

[ICS 2123 Cultural Anthropology](#)

[ICS 3243 Principles and Philosophy of Community Development](#)

[ICS 4133 Intercultural Leadership Skills](#)

[ICS 4183 Cultural Values Seminar](#)

[POL 3353 International Relations](#)

[SST 1133 Cultural Geography](#)

C. TESOL

[EGL 3363 Advanced English Grammar](#)

[ED 3563 Second Language Acquisition for Teachers](#)

[ED 3583 Curriculum and Instruction: TESOL](#)

[ICS 2113 Intercultural Communication](#)

[LS 2173 Introduction to Linguistics](#)

D. Young Adult Education

[ED 2723 Special Education](#)

[ED 3113 Framework for Teaching – Secondary Education](#)

[ED 3153 Disciplinary Literacy](#)

[ED 3583 Curriculum and Instruction: TESOL](#)

[EGL 2243 Young Adult Literature](#)

4. Minor field or electives as necessary to complete minimum total hours.

Note: This degree program does not lead to licensure.

Minimum total semester hours 124

View 4-year Plan

DIVISION OF ENGINEERING AND CONSTRUCTION MANAGEMENT

Bland (chair), Caldwell, Faust, Gilmour, Macfarlan, Rodriguez, Song, M. Terrill, Xu

The Division of Engineering and Construction Management comprises the Departments of [Construction Management](#) and [Engineering](#), Bachelor's degrees are offered in [Construction Management](#) and [Engineering](#). Associate's degrees are offered in [Construction Management](#) and [Electromechanical Technology](#). A minor is offered in [Construction Management](#).

Mission of the Division

The mission of the Division of Engineering and Construction Management is to provide a university education integrating general studies and disciplinary studies to equip students to excel in their chosen major.

The faculty of the division seeks to educate the student in the methods of carefully and logically understanding problems and of designing solutions for those problems. Education within the division is in the context that "All truth is God's truth"; therefore, a biblical world- and life-view is the basis for problem-solving procedures. "The fear of the Lord is the beginning of knowledge." (Proverbs 1:7). A low student-faculty ratio within the division assures interaction between faculty and students on these and other issues. The curriculum and the co-curriculum prepare the division graduates to function effectively in advanced technical positions or to enter graduate studies.

Accreditation

The [Bachelor of Science in Engineering](#) degree with electrical/computer, mechanical, or renewable energy concentration is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

The [Bachelor of Science in Construction Management](#) degree is accredited by the American Council for Construction Education (ACCE), <http://www.acce-hq.org>.

Facilities

The division facilities are housed in the Balzer Technology Center that is LEED certified. There is over 40,000 square feet for classroom, laboratory, and fabrication areas. Laboratories support instruction and student design activities in thermal sciences, fluids, mechanical testing, machine design, materials science, instrumentation, control systems, electronics, and communications. A welding shop, a machine shop, and a modeling shop provide support for student projects. The Construction Management Department has a 7,000 square foot construction area and office that is used for the integrated Senior Capstone course which manages the construction of a building each year. Division majors have exterior sites for conducting solar and wind energy experiments.

Advisory Boards

Advisory boards for both Construction Management and Engineering are made up of distinguished alumni and other professionals. These groups give counsel on curriculum focus, professional issues, and integration of faith and learning.

Scholarships

Scholarships are available to upper-division Construction Management and Engineering students. These are supported by the Fred Olney Endowed Engineering Scholarship, the Engineering Excellence Endowed Scholarship, the Harold C. and Mildred B. Ward Endowed Engineering Scholarship, the Charles Willis Endowed Scholarship, the Robert D. Nabholz Construction Scholarship, the Milton and Leila Levy Endowed Scholarship, the National Association of Women in Construction Scholarship, the American Society of Professional Estimators Endowed Scholarship, the Jeff Scholtens Memorial Endowed Scholarship, the Barnabas (An Encourager) Endowed Scholarship (Acts 4:36), and the Engineering Opportunity Endowed Scholarship.

DEPARTMENT OF CONSTRUCTION MANAGEMENT

(SYMBOL: CM)

The vision of the Department of Construction Management is to prepare graduates to influence the construction management environment through a balanced application of technical expertise, ethics, stewardship, creativity, craftsmanship, work, community, and leadership. The education is provided in a Christian context that promotes spiritual growth and the development of positive character traits such as honesty, reliability, and industriousness, which result in a high level of professionalism.

Construction Management students have access to over twenty computer workstations in the department. These stations are equipped with software used for estimating, scheduling, 3D architectural design, structural design, and other construction applications. Computer applications are studied in lecture courses and are used in practicum courses on real projects. Practical experience is also given in the use of surveying equipment and applicable power tools. Seniors gain experience in managing an actual construction project.

Graduates from this department are equipped to meet the demands of the construction industry. They are found managing the construction process in both the residential and commercial sector of the industry. This program is also suited for students interested in becoming Christian missionary builders and for students interested in Design-Build. Students may choose between a Business Administration option and the International Construction option.

John Brown University is a member of the Associated Schools of Construction, and is recognized by the Arkansas Chapter of the Associated General Contractors of America, Inc., the Arkansas Chapter of the Associated Builders and Contractors, and the American Institute of Constructors. The program is accredited by the American Council for Construction Education ([ACCE](#)), phone: (210) 495-6161.

National Certification Exam

Graduating seniors are required to take the Associate Constructor Exam administered by the Constructor Certification Commission (CCC). The American Institute of Constructors (AIC) is the

sponsoring organization and is the professional society for those working in the field of construction management.

Student Learning Objectives

- a. Create oral, visual, and written communication related to construction management for a diverse audience.
- b. Apply ethical principles appropriate to the profession to make informed and principled choices.
- c. Analyze construction documents in order to plan, estimate, sequence, and manage the construction process.
- d. Understand construction methods, materials, and equipment used in various types of construction projects.

Requirements for the Bachelor of Science (B.S.) degree with major in Construction Management

1. [University Core Curriculum](#) - 37 hours

The [Mathematics](#) elective is covered by BUS 2193, the [Physical Science](#) elective is covered by PHY 1114, and the [Social Science](#) elective is covered by ECN 2123 in the program requirements. [EGL 4003](#), the [Life Science](#) elective, and the [Global Studies](#) elective are not required.

2. Construction Management Major Field - 86 hours

[ATG 1163 Accounting for Decision Making](#)

[BUS 3113 Spreadsheet Analytics](#)

[BUS 2163 Business Mathematics](#)

[BUS 2193 Business Statistics](#)

[BUS 4253 Business Law and Ethics](#)

[CHM 1014 Fundamentals of Chemistry](#)

[CM 1112 Construction Techniques I](#)

[CM 1122 Construction Techniques II](#)

[CM 1223 Graphic Communication Skills](#)

[CM 1313 Materials of Construction](#)

[CM 2213 Construction Methods I](#)

[CM 2223 Construction Methods II](#)

[CM 2322 Statics and Strength for Technology](#)

[CM 2431 Construction Internship A](#)

[CM 2513 Surveying](#)

[CM 3213 Construction Safety and Quality](#)

[CM 3233 Structural Systems for Building](#)

[CM 3413 Estimating I](#)

[CM 3603 Mechanical/Electrical Systems for Buildings](#)

[CM 3613 Architectural Design I](#)

[CM 3623 Architectural Design II](#)

[CM 4323 Construction Contracting](#)

[CM 4423 Estimating II](#)

[CM 4613 Construction Project Planning and Scheduling](#)

[CM 4713 Construction Management I](#)

[CM 4723 Construction Management II](#)

[ECN 2123 Principles of Macroeconomics](#)

[MTH 1122 Trigonometry](#)

[MTH 1123 Survey of Calculus](#)

[PHY 1114 Fundamentals of Physics I](#)

3. One of the following Options - 10 hours:

A. Business Administration

[BUS 1123 Business Communication](#)

[CM 2441 Construction Internship B](#)

[COM 2523 Public Speaking](#)

[MGT 2173 Principles of Management](#)

B. International Construction

[CM 2451 International Construction Internship B](#)

[ICS 2113 Intercultural Communication](#)

[INT 2183 International Management](#)

[INT 3153 International Marketing](#)

Minimum total semester hours 133

[View 4-Year Plan - Business Administration](#)

[View Flow Chart - Business Administration](#)

[View 4-Year Plan - International Construction](#)

[View Flow Chart - International Construction](#)

Requirements for minor in Construction Management

The student must successfully complete a minimum of 19 hours.

[CM 1112 Construction Techniques I](#)

[CM 1122 Construction Techniques II](#)

[CM 1223 Graphic Communication Skills](#)

[CM 1313 Materials of Construction](#)

[CM 3413 Estimating I](#)

One of the following:

[CM 2213 Construction Methods I](#)

[CM 2223 Construction Methods II](#)

One of the following:

[CM 3213 Construction Safety and Quality](#)

[CM 3603 Mechanical/Electrical Systems for Buildings](#)

[CM 3613 Architectural Design I](#)

Requirements for the Associate of Science (A.S.) degree with major in Construction Management

1. [University Core Curriculum](#) - 26 hours

[BBL 1013 Old Testament Survey](#)

[BBL 1023 New Testament Survey](#)

[COR 1002 Gateway Seminar in Christian Scholarship](#)

[EGL 1013 English I: Composition](#)

[EGL 1023 English II: Literary Analysis and Research](#)

One of the following:

[HST 1013 Western Civilization I](#)

[HST 1023 Western Civilization II](#)

One of the following:

[KIN 1002 Wellness for Life](#)

[KIN 1012 Lifetime Fitness](#)

Core Electives

[Wellness Activity](#) - 1 hour

[Natural Science](#) - 3 hours

[Social Science](#) - 3 hours

2. Courses Specified by this Department - 33 hours

[ATG 1163 Accounting for Decision Making](#)

[BUS 2193 Business Statistics](#)

[BUS 3113 Spreadsheet Analytics](#)

[CM 1112 Construction Techniques I](#)

[CM 1122 Construction Techniques II](#)

[CM 1223 Graphic Communication Skills](#)

[CM 1313 Materials of Construction](#)

[CM 2431 Construction Internship A](#)

[CM 2441 Construction Internship B](#)

[CM 3413 Estimating I](#)

One of the following:

[CM 2213 Construction Methods I](#)

[CM 2223 Construction Methods II](#)

Two of the following:

[CM 3213 Construction Safety and Quality](#)

[CM 3603 Mechanical/Electrical Systems for Buildings](#)

[CM 3613 Architectural Design I](#)

3. Electives as necessary to complete minimum total hours

Minimum total semester hours 62

The Associate of Science degree with major in Construction Management is not available to students pursuing a Bachelor of Science degree with major in Construction Management.

DEPARTMENT OF ENGINEERING

(SYMBOLS: EE, EN, ME, RE)

Engineers apply the theories and principles of science and mathematics to the economical solution of practical technical problems. There are some 25 different engineering specialties, but of the nearly 1.5 million engineering jobs available each year the greatest numbers are filled by engineers having electrical or mechanical backgrounds. More than one half of engineering jobs are in the manufacturing industries. The major part of the remainder is in engineering and architectural services and business and management consulting services. Governments employ about 200,000 engineers. Renewable energy is an emerging technical area driven by the need to replace fossil fuels with an energy efficient and environmentally friendly alternative.

Engineers in the electrical/computer and mechanical areas design, develop, test, and supervise the manufacture of electrical and electronic equipment, mechanical equipment, energy systems, and information systems. Renewable energy engineers will integrate both the mechanical and electrical for state-of-the-art energy developments.

Mission of the Department

The Engineering Department strives to educate students in the application of science and technology to the service of God and humanity. The goal is to produce graduates who can begin effective engineering practice in industry, graduate school, or the mission field.

Program Educational Objectives

The faculty of Engineering is committed to the following objectives which are consistent with both the university and the division mission statements and emphasize the head (intellectual), heart (spiritual), and hand (professional).

1. HEAD - John Brown University engineering graduates will have a strong general education, a broad foundation in electrical and mechanical fundamentals, and a depth of knowledge in a specific engineering discipline sufficient to ensure both immediate application and life-long learning.
2. HEART - John Brown University engineering graduates will be aware of their personal and professional responsibility to serve both God and humanity.
3. HAND - John Brown University engineering graduates will be prepared and confident to begin an entry-level engineering position, pursue graduate studies, or contribute as a Christian technical missionary.

Student Learning Outcomes

The program outcomes are published on the university web site. A graduate from the John Brown University engineering program should have

- a. an ability to apply knowledge of mathematics, science, and engineering;
- b. an ability to design and conduct experiments, as well as to analyze and interpret data;
- c. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- d. an ability to function on multi-disciplinary teams;
- e. an ability to identify, formulate, and solve engineering problems in electrical/computer, mechanical, and renewable energy domains;
- f. an understanding of professional and ethical responsibility in light of a Christian worldview;
- g. an ability to communicate effectively;
- h. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- i. a recognition of the need for, and an ability to engage in life-long learning;

j. a knowledge of contemporary issues; and

k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Design Emphasis

At JBU the engineering design experience starts in the freshman year, develops with more extensive technical content through the sophomore and junior years, and culminates with the two-semester senior design project. The scheme for the lower-level design courses is to introduce design methodology using small design projects that prepare the student to clearly define the problem, identify the constraints and criteria, and establish the requirements for the design. By the third year, the student will have developed the technical background to work out significant engineering design problems. The junior-level design lab provides an opportunity to work with an interdisciplinary team and produce both oral and written presentations.

Fourth year experiences include those in electronic design, machine design, and fluid system design as well as the capstone design project. The capstone project is an intense experience for the engineering student. It approaches a "real-world" situation. The projects must be finished and satisfy stated objectives as determined by active negotiation with the engineering faculty and the sponsors. Oral and written presentations are produced for this project.

Degree Candidacy

Students must apply for degree candidacy status during the second semester of the sophomore year. At this time, the student will make known their concentration of choice and complete a four-year plan in consultation with their advisor.

Certification for Additional Concentration

A student who completes all requirements for the [B.S.Eng.](#) degree with one concentration may receive an enhancement certification from the chair of the Division of Engineering and Construction Management certifying the additional work done in second concentration area by completing at least nine hours of additional course work from the second concentration's required courses (this does not include electives).

A student who completes all the common requirements for a B.S.Eng., all the required courses from two concentrations, and four electives from those two concentrations may receive a B.S.Eng. degree with double concentration in those two areas.

Requirements for the Bachelor of Science in Engineering (B.S.Eng.) degree with Electrical/Computer, Mechanical, or Renewable Energy Concentration

1. [University Core Curriculum](#) - 34 hours

The [Mathematics](#) elective is covered by MTH 1134, the [Physical Science](#) elective is covered by PHY 2114 and the [Global Studies](#) elective is covered by EN 3513 in the program requirements. [EGL 4003](#), the [Wellness](#) elective, the [Wellness Activity](#), the [Biological Science](#) elective, and the [Social Science](#) elective are not required.

2. Engineering Core - 78 hours

[CHM 1124 General Chemistry I](#)

[CS 1113 Introduction to Computing](#)

[EE 2213 Digital Electronics](#)

[EE 2223 Electrical Circuits](#)

[EE 3313 Electronics I](#)

[EN 1112 Engineering Concepts and Design](#)

[EN 1223 Concepts in Mechanical Engineering](#)

[EN 1323 Concepts in Electrical Engineering](#)

[EN 2322 Engineering Economics](#)

[EN 3213 Engineering Materials Science](#)

[EN 3222 Design Lab](#)

[EN 3413 Linear Signals and Systems](#)

[EN 3513 International Problem Solving](#)

[EN 4113 Engineering Design I](#)

[EN 4123 Engineering Design II](#)

[EN 4323 Control Systems](#)

[ME 3113 Thermal Sciences](#)

[ME 3313 Statics and Strength of Materials](#)

[MTH 1134 Calculus I](#)

[MTH 1144 Calculus II](#)

[MTH 2114 Linear Algebra and Differential Equations](#)

[MTH 2123 Vector Calculus](#)

[MTH 3183 Probability and Statistics](#)

[PHY 2114 General Physics I](#)

[PHY 2124 General Physics II](#)

3. One of the following Concentrations

A. Electrical/Computer Concentration - 24 hours

[EE 3123 Embedded Systems](#)

[EE 3323 Digital Systems](#)

[EE 3423 Signal Processing](#)

[EE 4123 Electromagnetics](#)

[EE 4413 Digital Communications Theory](#)

Technical Electives - 9 hours from the following:

[EE 3501/02/03 Selected Topics](#)

[EE 4213 Electronics II](#)

[EE 4303 Digital Signal Processing](#)

[EE 4403 Advanced Digital Systems](#)

[EE 4503 Data and Computer Communications](#)

[EN 3323 Power Electronics](#)

[EN 3233 Advanced Computer Programming](#)

[EN 3343 Power Systems](#)

[EN 3501/02/03 Selected Topics](#)

[EN 4333 Space Systems](#)

[EN 4403 Engineering Management](#)

B. Mechanical Concentration - 24 hours

[ME 3123 Dynamics](#)

[ME 3223 Thermodynamics](#)

[ME 4113 Machine Design](#)

[ME 4213 Heat Transfer](#)

[ME 4323 Fluid Mechanics](#)

Technical Electives - 9 hours from the following:

[EN 3233 Advanced Computer Programming](#)

[EN 3323 Power Electronics](#)

[EN 3343 Power Systems](#)

[EN 3501/02/03 Selected Topics](#)

[EN 4333 Space Systems](#)

[EN 4403 Engineering Management](#)

[ME 3501/02/03 Selected Topics](#)

[ME 4103 Advanced Strength of Material](#)

[ME 4203 Mechanical Vibrations](#)

[ME 4303 Finite Element Analysis](#)

[ME 4403 Compressible Flow](#)

[ME 4603 Advanced Thermodynamics](#)

[ME 4703 Aerospace Propulsion](#)

C. Renewable Energy Concentration - 23 hours

[CHM 2154 General, Organic, and Biochemistry](#)

[RE 2121 Practicum in Renewable Energy](#)

[RE 2213 Renewable Energy Thermal Fluids Introduction](#)

[RE 3123 Bio-fuels and Biomass](#)

[RE 3153 Mechanical Issues of Wind Engineering](#)

[RE 3173 Renewable Energy/Electric Power Engineering](#)

Technical Electives - 6 hours from the following:

[EE 3501/02/03 Selected Topics](#)

[EE 4213 Electronics II](#)

[EN 3323 Power Electronics](#)

[EN 3233 Advanced Computer Programming](#)

[EN 3343 Power Systems](#)

[EN 3501/02/03 Selected Topics](#)

[EN 4403 Engineering Management](#)

[ME 3123 Dynamics](#)

[ME 3223 Thermodynamics](#)

[ME 3501/02/03 Selected Topics](#)

[ME 4103 Advanced Strength of Material](#)

[ME 4113 Machine Design](#)

[ME 4203 Mechanical Vibrations](#)

[ME 4213 Heat Transfer](#)

[ME 4303 Finite Element Analysis](#)

[ME 4323 Fluid Mechanics](#)

[ME 4603 Advanced Thermodynamics](#)

B.S.Eng. with Electrical/Computer or Mechanical Concentration - Minimum total semester hours . . 136

[View 4-Year Plan - Electrical/Computer](#)

[View 4-Year Plan - Mechanical](#)

[View Flow Chart - Electrical/Computer or Mechanical](#)

B.S.Eng. with Renewable Energy Concentration - Minimum total semester hours 135

[View 4-Year Plan Renewable Energy](#)

[View Flow Chart - Renewable Energy](#)

Requirements for the Associate of Science (A.S.) degree with major in Electromechanical Technology

1. [University Core Curriculum](#) - 23 hours

[BBL 1013 Old Testament Survey](#)

[BBL 1023 New Testament Survey](#)

[COR 1002 Gateway Seminar in Christian Scholarship](#)

[EGL 1013 English I: Composition](#)

[EGL 1023 English II: Literary Analysis and Research](#)

One of the following:

[HST 1013 Western Civilization I](#)

[HST 1023 Western Civilization II](#)

One of the following:

[KIN 1002 Wellness for Life](#)

[KIN 1012 Lifetime Fitness](#)

Core Electives

[Wellness Activity](#) - 1 hour

[Social Science](#) - 3 hours

2. Courses Specified by this Department** - 33 hours

[CHM 1124 General Chemistry I](#)

[CS 1113 Introduction to Computing](#)

[EN 1112 Engineering Concepts and Design](#)

[EN 1121 Production Techniques Laboratory](#)

[EN 1223 Concepts in Mechanical Engineering](#)

[EN 1323 Concepts in Electrical Engineering](#)

[EN 2322 Engineering Economics](#)

[EN 3213 Engineering Materials Science](#)

[MTH 1134 Calculus I](#)

[PHY 2114 General Physics I](#)

[PHY 2124 General Physics II](#)

** Division chair may make discretionary substitutions.

3. Electives as necessary to complete minimum total hours

Minimum total semester hours 62

The Associate of Science degree with major in Electromechanical Technology is not available to students pursuing a Bachelor of Science in Engineering degree.

DIVISION OF HUMANITIES AND SOCIAL SCIENCES

Bennett, Gambill, A. Himes, J. Himes, Iglesias, Jones, Kirk, R. Moore, Pastoor, Posey, Roby, Stratman (chair), Wilson

The Division of Humanities and Social Sciences offers courses that are rich in the liberal arts and that contribute to the general education of all students. The division includes departments of [English](#), [History](#), [Language Studies](#), [Political Science](#), and [Social Studies](#). Curricula leading to teacher certification are offered in [English](#) and [Social Studies](#). The division also houses the [Pre-Law Professional Program](#).

Mission Statement

The Division of Humanities and Social Sciences equips students to study human nature and the actions and ideas of people in their historical, political, and cultural contexts and to promote, from a distinctly Christian perspective, the intellectual, spiritual, and occupational development of our students. The faculty members in this division also contribute to our academic disciplines through research and publication which enriches the work of teaching that is our primary objective.

The Division of Humanities and Social Sciences develops students who

- * know the theories, ideas, research methods, and key personalities of their discipline
- * are willing to ask critical questions to evaluate and modify preconceptions
- * will develop personal values based on observation, research, critical thinking, personal reflection, and Christian principles
- * can propose thoughtful and expedient solutions to social problems
- * appreciate the great tradition of arts and literature of the West while considering both the values of that tradition and the problems inherent in the canonization of tradition
- * can communicate clearly in written and oral expression
- * develop cross-cultural understanding in Western and non-Western traditions
- * will be life-long learners and critical thinkers

DEPARTMENT OF ENGLISH

(SYMBOL: EGL)

Gambill (department head)

The John Brown University Department of English offers a curriculum leading to the Bachelor of Arts and, in conjunction with the College of Education and Human Services, the [Bachelor of Science in Education](#) for teachers of English.

The curriculum for the English major emphasizes the reading and critical analysis of literature, the historical development of literature as part of culture, and the research, writing, critical thinking, and communication skills necessary for scholarship, effective teaching and success in a wide variety of professional fields, which include publishing, editing, writing for business and industry, management, and many more.

Practicums offer experience in Writing Center consultation and experience in collaboration with a real world publishing company to produce a reading guide to a recently published book.

Student Learning Outcomes

Students graduating with a major in English will:

- Demonstrate a high level of understanding in their field by scoring above the 60th percentile on the MFAT.
- Develop and revise a creative idea through several drafts, or assert and support a specific thesis, synthesizing the complexities of the issue and other points of view.
- Demonstrate a thorough understanding of context, audience, and purpose.
- Use relevant and compelling content to illustrate mastery of the subject.
- Use language that communicates meaning to readers with clarity and fluency with few grammatical/ mechanical errors.
- Draw connections between faith and literary studies, or draw connections between faith and creative writing.
- Demonstrate skillful use of interesting and relevant sources to develop ideas in a literary analysis, or demonstrate skillful use of interesting and relevant sources in a creative piece.
- Demonstrate a full understanding of citing, paraphrasing, summarizing, and quoting secondary sources responsibly.
- Demonstrate preparedness to enter graduate school or the workplace in an exit interview with their advisor.
- Participate through their vocation in God's creative and redemptive purposes in the world.

Requirements for the Bachelor of Arts (B.A.) degree with major in English

1. [University Core Curriculum](#) - 52 hours

[EGL 4003](#) Masterpieces of Literature is covered by one of EGL 2213 or EGL 2223 and one of EGL 2413, EGL 3313, EGL 3333, EGL 3353, EGL 3323, or EGL 3343 in the program requirements.

2. English Major Core - 26 hours

[EGL 1221 Introduction to English Studies](#)

[EGL 2393 Advanced Composition](#)

[EGL 2413 American Literature to 1900](#)

[EGL 3313 Medieval Literature](#)

[EGL 3333 Shakespearean Drama](#)

[EGL 3353 Nineteenth Century British Literature](#)

[EGL 3363 Advanced English Grammar](#)

[EGL 4881 English Capstone](#)

One of the following:

[EGL 2213 World Literature I](#)

[EGL 2223 World Literature II](#)

One of the following:

[EGL 3323 Renaissance Literature](#)

[EGL 3343 Restoration and Eighteenth Century Literature](#)

3. One of the following Emphases - 11 hours

A. Literature

[EGL 3321 Writing Center Practicum](#) (to be taken twice)

[EGL 3713 Literary Theory](#)

[EGL 4483 Selected Topics: Literature](#) (to be taken twice)

B. Writing

[EGL 2273 Introduction to Creative Writing](#)

[EGL 3321 Writing Center Practicum](#) (may be repeated for additional credit)

[EGL 3341 Publishing Practicum](#)

[EGL 4473 Creative Writing Workshop: Selected Genres](#)

[EGL 4473 Creative Writing Workshop: Selected Genres \(2nd genre\)](#)

4. Foreign Language - 12 hours

Twelve hours of LS-1000, LS-2000 level courses in the same language; or six hours of LS-2000 level courses; or twelve hours of LS-1000, LS-2000 level courses, [BBL 2513](#), [BBL 2523](#), [BBL 3513](#), or [BBL 3523](#) with six hours each in two different languages.

English majors are encouraged to consider [Spanish](#) or [French](#) as a minor.

Completion of an intermediate Language course meets the [Global Studies](#) requirement of the Core Curriculum.

5. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan - Literature](#)

[View 4-Year Plan - Writing](#)

Requirements for minor in English

The student must successfully complete a minimum of 21 hours of course work in [EGL](#), including at least six hours of upper-division courses.

Requirements for minor in Teaching English to Speakers of Other Languages (TESOL)

The student must successfully complete the following courses for a minimum of 21 hours.

[ICS 2113 Intercultural Communication](#)

[LS 2173 Introduction to Linguistics](#)

[ED 2143 Learning Theories and Developmental Psychology](#)

[ED 3563 Second Language Acquisition for Teachers](#)

[EGL 3363 Advanced English Grammar](#)

[ED 3583 Curriculum and Instruction: TESOL](#)

[ED 3113 Framework for Teaching – Secondary Education](#)

Requirements for the Bachelor of Science in Education (B.S.E.) degree with major in English

See [B.S.E. degree with major in English](#) under the College of Education.

[View 4-Year Plan](#)

Requirements for minor in Education

English majors whose professional plans may include teaching in public (grades 7-12 with a non-traditional licensure), private, international, or college settings are encouraged to consider the 18-hour [Education](#) minor. Though the minor is not recognized for teacher licensure, the package will provide a strong educational background for whatever teaching opportunities one may encounter.

DEPARTMENT OF HISTORY

(SYMBOL: HST)

R. Moore (department head)

The Department of History seeks bright, motivated young people who are interested in the world around them and who desire to work toward becoming reflective, thoughtful and well-rounded Christians. Undergraduate study of history prepares students for graduate work in many fields, including theology, linguistics and psychology. JBU's History Department is especially equipped to assist students interested in pursuing careers in law, international relations, and politics. In addition to being a good thing in itself, learning about history complements all other courses of study. For this reason, the department offers courses within the [Core Curriculum](#). Courses in this department also serve as a substantial component of the Social Studies curriculum as required for the [B.S.E. degree](#).

Student Learning Outcomes

Students graduating with a major in History will:

- Be able to analyze primary sources.
- Be able to analyze and evaluate secondary sources.
- Clearly express ideas in written form.
- Be able to explain the effect of a Christian perspective on the study of history.
- Demonstrate a basic knowledge of major historical facts from JBU's history elective offerings.

Requirements for the Bachelor of Arts (B.A.) degree with major in History

1. [University Core Curriculum](#) - 49 hours

[HST 1013](#) and [HST 1023](#) are included in the program requirements.

2. Courses Specified by this Department - 42 hours

[HST 1013 Western Civilization I](#)

[HST 1023 Western Civilization II](#)

[HST 2113 United States History to 1865](#)

[HST 2123 United States History since 1865](#)

[HST 2213 Study of History](#)

[HST 4613 Seminar in History](#)

Twenty-four hours from the following (at least 15 hours must be upper-division courses):

[BBL 3363 History of the Christian Church I](#)

[BBL 3373 History of the Christian Church II](#)

[HST 2111 Selected Topics: Language Lab](#)

[HST 2112 Selected Topics: Great Books](#)

[HST 2153 Twentieth Century World History](#)

[HST 2243 Middle Ages](#)

[HST 2323 Poverty and Welfare in American History](#)

[HST 2523 Classical World](#)

[HST 3253 British Empire](#)

[HST 3263 Slavery and Race in American History](#)

[HST 3273 America at War](#)

[HST 3313 Second World War](#)

[HST 3411/12/13 Selected Topics](#)

[HST 3423 Leaders in History](#)

[HST 3433 History of the Middle East, 600-1800](#)

[HST 3443 The Modern Middle East](#)

[HST 3463 African Civilization to 1850](#)

[HST 3473 African Civilization since 1850](#)

[HST 4511/12/13 Independent Study](#)

[POL 3143 The American Presidency](#)

3. Foreign Language - 12 hours

Six hours of LS-1000, LS-2000 level courses in the same language with six additional hours of LS-1000, LS-2000 level courses, [BBL 2513](#), [BBL 2523](#), [BBL 3513](#), [BBL 3523](#), or [HST 2111](#); or six hours of LS-2000 level courses

Completion of an intermediate language course meets the [Global Studies](#) requirement of the Core Curriculum.

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in History

The student must successfully complete a minimum of 18 hours.

Required Courses - 6 hours

[HST 2113 United States History to 1865](#)

One of the following:

[HST 2123 United States History since 1865](#)

[HST 2153 Twentieth Century World History](#)

A minimum of 12 additional hours in [HST](#)

At least six hours must be upper-division courses

U.S. History CLEP Examinations

History majors and minors may not use CLEP examinations to substitute for [HST 2113](#) or [HST 2123](#) after matriculating at JBU.

Requirements for minor in Museum Studies

The student must successfully complete a minimum of 18 hours.

Required Courses - 12 hours

[ATG 1163 Accounting for Decision Making](#)

[HST 3513 Introduction to Museum Studies](#)

[HST 4313 Internship in Museum Studies](#)

[MGT 2173 Principles of Management](#)

Choose one of the following emphases - 6 hours:

- A. Archives/Public History Emphasis

[HST 2213 Study of History](#)

[3 hours HST elective](#)

- B. Art History Emphasis

[ART 2233 Art History I](#)

[ART 3233 Art History II](#)

- C. Archaeology Emphasis

[BBL 4453 Art and Archaeology of Jordan](#)

[BBL 4483 Selected Topics](#)

DEPARTMENT OF LANGUAGE STUDIES

(SYMBOLS: LCR, LS, LSS)

Roby (department head)

The study of classical and modern languages has historically been at the core of education in eastern and western civilizations. The recent development of sophisticated neuro-imaging technology confirms the cognitive benefits of serious language study. By its course content and its advocacy, the Department of Language Studies provides campus leadership in the areas of academic rigor and cross-cultural awareness.

The Department of Language Studies offers the Bachelor of Arts degree with major in [Spanish](#), and minors in [French](#), [Spanish](#), and [Linguistics](#). Courses in other languages—Chinese, German, Latin—are offered upon sufficient student interest. Language courses meet the needs of students in Bachelor of Arts programs. The Language Studies Department designs and schedules its courses in cooperation with the [Biblical Studies](#), [English](#), [History](#), [Intercultural Studies](#), [International Business](#), [Music](#), and [Political Science](#) departments.

A hallmark of the program is the use of instructional technology in the classroom and for out-of-class practice. The department's Language Learning Resource Center in Cathedral 207 provides videos and feature films for additional exposure to authentic language samples. Students go there to record pronunciation assignments or to watch the several foreign language television channels which are available on campus. The department has worked with university's instructional technology services to make other resources, such as foreign language dictionaries, available on the campus computer network.

The Spanish major entails a semester of study abroad. In order to be eligible to participate in these programs, students must successfully complete [LS 3153](#) Conversation in Spanish and [LS 3163](#) Professional Spanish. [LS 2173](#) Introduction to Linguistics is strongly recommended. Performing well in these courses is linked to success in study abroad where all instruction is in Spanish.

[Financial aid](#) funds for study abroad may be limited based on the number of JBU students studying abroad during a given semester. Students interested in majoring in Spanish should consult with the department head as early as possible about their future participation in one of the off-campus options.

The relatively low number of hours required for the major, 37, facilitates double-majoring. Most students do so; those who do not typically complete two minors. Students who are interested in a teaching career should consider a minor in [TESOL](#).

Students in other majors may earn credit in Spanish and specialized areas such as business and environmental studies by spending a semester in Costa Rica in the [Latin American Studies Program](#) sponsored by the Council for Christian Colleges & Universities. Some JBU students have participated in the [Living and Learning in Quito](#) program in Ecuador.

College credit in language may be established by CLEP or other examinations approved by the department.

Based upon recommendation of the Department of Language Studies, a student may enter language study above the elementary level without having established college credit for the elementary course(s). In such cases, the early courses are waived upon completion of subsequent work. The waiver does not establish credit; hours are posted only for the specific courses completed. However, a language requirement is considered met upon completion of the second semester of an Intermediate level language course.

Spanish majors, especially those considering graduate school, are urged to take at least six hours of French or German.

Student Learning Outcomes

Students graduating with a major in Spanish will:

- Demonstrate skill in listening, reading, speaking, and writing in the Spanish language.
- Be autonomous language learners who can use resources such as dictionaries to extend their language proficiency.
- Appreciate the diversity of populations who speak the Spanish language.
- Succeed in multilingual settings after graduation from JBU.

Requirements for the Bachelor of Arts (B.A.) degree with major in Spanish

1. [University Core Curriculum](#) - 49 hours

The [Social Science](#) elective is covered by LS 2173 in the program requirements. The [Global Studies](#) elective is covered by the semester in Spain or Costa Rica.

2. Courses Specified by the Department - 21 hours

[LS 2113 Intermediate Spanish I](#)

[LS 2123 Intermediate Spanish II](#)

[LS 3163 Professional Spanish](#)

[LS 4113 Readings in Spanish I](#)

[LS 4123 Readings in Spanish II](#)

One of the following:

[LS 2173 Introduction to Linguistics](#)

[LS 3153 Conversation in Spanish](#)

One of the following (chosen in accordance with the student's professional goals):

[LS 4143 Second Language Acquisition for Spanish Teachers](#)

[LS 4193 Language Internship](#)

3. One of the following options:

A. [Semester in Spain \(Seville\)](#) - 16 hours (recommended during the student's junior year)

[LSS 3114 Spanish History and Civilization](#)

[LSS 3514 Advanced Spanish Grammar and Composition](#)

Two of the following:

[LSS 3044 Spanish Short Story](#)

[LSS 3064 History of Spanish Art](#)

[LSS 3554 Spanish Literature I](#)

[LSS 3564 Spanish Literature II](#)

Other Seville courses may be substituted only upon approval of the Department of Language Studies

B. Latin American Studies Program (Costa Rica) – 15 hours

[LCR 3116 Spanish Language](#)

[LCR 3213 Latin American History and Contemporary Issues](#)

[LCR 3513 Language and Literature Seminar](#)

[LCR 3613 Community Immersion](#)

4. Minor field or electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Spanish

The student must successfully complete a minimum of 18 hours.

[LS 2113 Intermediate Spanish I](#)

[LS 2123 Intermediate Spanish II](#)

[LS 3163 Professional Spanish](#)

[LS 4113 Readings in Spanish I](#)

[LS 4123 Readings in Spanish II](#)

One of the following:

[LS 2173 Introduction to Linguistics](#)

[LS 3153 Conversation in Spanish](#)

Requirements for minor in French

The student must successfully complete a minimum of 21 hours.

[LS 1213 Elementary French I](#)

[LS 1223 Elementary French II](#)

[LS 2173 Introduction to Linguistics](#)

[LS 2213 Intermediate French I](#)

[LS 2223 Intermediate French II](#)

[LS 3213 Readings in French I](#)

[LS 3223 Readings in French II](#)

Requirements for minor in Linguistics

On-campus option: English Linguistics

The student must successfully complete a minimum of 18 hours.

Required Courses - 12 hours

[EGL 2393 Advanced Composition](#)

[EGL 3363 Advanced English Grammar](#)

[LS 2173 Introduction to Linguistics](#)

[LS 4193 Language Internship](#)

Foreign Language Component - 6 hours

Because English is a Germanic language which has undergone extensive influence from French, students must take two semesters of Elementary Language (French or German) or demonstrate proficiency by an appropriate score on the CLEP test.

Off-campus option: English Linguistics

The student must successfully complete a minimum of 22 hours.

Required Courses - 6 hours

[EGL 3363 Advanced English Grammar](#)

[LS 2173 Introduction to Linguistics](#)

Intermediate Language Study - 6 hours

Summer Institute of Linguistics - 10 semester-hours minimum, offered through the University of North Dakota or Trinity Western University (Langley, British Columbia, Canada).

DEPARTMENT OF POLITICAL SCIENCE

(SYMBOL: POL)

Bennett (department head)

The Department of Political Science offers courses leading to a Bachelor of Arts degree with major in [Political Science](#). Minors are available in [International Relations](#), [Political Science](#), [Social Justice](#), and [Pre-Law](#). The curriculum is international in scope, theoretically grounded, and academically

rigorous. Courses within the department introduce students to the theory and practice of political science with particular emphasis on political philosophy, social justice, international relations, comparative politics, political behavior, and political institutions. Students are equipped with the skills necessary to excel in any post-graduation pursuit, including graduate school, law school, public service, missions, business, and advocacy, to name a few.

Faculty in the department take seriously the integration of faith and learning. Students are encouraged to view themselves as active participants in society with a God-given mandate to serve others in the local community and the world. Graduates will be able to apply a Christian worldview to public life and integrate their faith with their chosen vocation.

Student Learning Outcomes

Students graduating with a major in Political Science will:

1. Demonstrate knowledge of the field.
 - 1.1 The fundamentals of democratic theory
 - 1.2 How Institutions Influence and are Influenced by Political Behavior
 - 1.3 Develop a Theological Approach to Politics
 - 1.4 Understand How To Compare Political Systems
 - 1.5 Plan and Execute a Research Paper
 - 1.6 Understand how the Constitutional Law in the U.S. developed and is applied
2. Think critically.
 - 2.1 Demonstrate proficiency in writing critical book reviews
 - 2.2 Demonstrate proficiency in writing case briefs
3. Demonstrate writing skills.
 - 3.1 Demonstrate proficiency in writing essays
4. Integrate faith with the principles of Political Science.
 - 4.1 Develop a Theological Approach to Politics
 - 4.2 Understand the contours of biblical justice
5. Demonstrate research skills.
 - 5.1 Plan and execute a publishable quality research paper
 - 5.2. Show competency in research design and univariate and multivariate analysis of public opinion data
6. Be prepared for graduate school.
 - 6.1 Student success at matriculating and graduating graduate/law school

Requirements for the Bachelor of Arts (B.A.) degree with major in Political Science

1. [University Core Curriculum](#) - 46 hours

The [Philosophy](#) elective is covered by POL 3003 and the [Global Studies](#) elective is covered by POL 2213 in the program requirements. [POL 2013](#) is included in the program requirements.

2. Courses Specified by this Department - 36 hours

[POL 2013 American Government](#)

[POL 2213 Comparative Politics](#)

[POL 2473 Methods of Political Analysis](#)

[POL 3003 Political Philosophy](#)

[POL 3133 Politics of Social Policy](#)

[POL 3143 The American Presidency](#)

[POL 3213 Faith and Politics](#)

[POL 3353 International Relations](#)

[POL 3423 Selected Topics in American Politics](#)

[POL 4243 Constitutional Law](#)

[POL 4313 Christianity and the Law](#)

[POL 4613 Research Seminar](#)

3. Foreign Language - 12 hours

Six hours of LS-1000, LS-2000 level courses in the same language with six additional hours from LS-1000, LS-2000 level courses, [BBL 2513](#), [BBL 2523](#), [BBL 3513](#), or [BBL 3523](#); or six hours of LS-2000 level courses

Completion of an Intermediate language course meets the [Global Studies](#) requirement of the Core Curriculum

4. Minor field or electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Political Science

1. [University Core Curriculum](#) - 46 hours

The [Philosophy](#) elective is covered by POL 3003 and the [Global Studies](#) elective is covered by POL 2213 in the program requirements. [POL 2013](#) is included in the program requirements.

2. Courses Specified by this Department - 36 hours

[POL 2013 American Government](#)

[POL 2213 Comparative Politics](#)

[POL 2473 Methods of Political Analysis](#)

[POL 3003 Political Philosophy](#)

[POL 3133 Politics of Social Policy](#)

[POL 3143 The American Presidency](#)

[POL 3213 Faith and Politics](#)

[POL 3353 International Relations](#)

[POL 3423 Selected Topics in American Politics](#)

[POL 4243 Constitutional Law](#)

[POL 4313 Christianity and the Law](#)

[POL 4613 Research Seminar](#)

3. Minor field or electives as necessary to complete minimum total hours

Minimum total semester hours 124

View 4-Year Plan

Requirements for minor in Political Science

The student must successfully complete a minimum of 18 hours beyond the [Core](#).

Required Courses - 9 hours

[POL 2213 Comparative Politics](#)

[POL 3003 Political Philosophy](#)

[POL 3213 Faith and Politics](#)

A minimum of nine additional hours in [Political Science](#)

Requirements for minor in Social Justice

The student must successfully complete a minimum of 18 hours beyond the [Core](#).

Required Courses-18 hours

[HST 2323 Poverty and Welfare in American History](#)

[POL 3003 Political Philosophy](#)

[POL 3133 Politics of Social Policy](#)

[POL 3213 Faith and Politics](#)

[POL 3423 Selected Topics in American Politics - Social Justice](#)

[POL 4313 Christianity and the Law](#)

Requirements for minor in International Relations

The student must successfully complete a minimum of 18 hours beyond the [Core](#).

Required Courses - 9 hours

[HST 2153 Twentieth Century World History](#)

[POL 2213 Comparative Politics](#)

[POL 3353 International Relations](#)

Nine hours from among the following:

[ECN 2043 Economies of the European Union](#)

[ECN 2113 Principles of Microeconomics](#)

[ECN 2123 Principles of Macroeconomics](#)

[ECN 4103 International Economics](#)

[HST 3253 British Empire](#)

[ICS 2123 Cultural Anthropology](#)

[ICS 4133 Intercultural Leadership Skills](#)

At least six hours must be upper division courses

American Studies Program (ASP) Option

Students successfully participating in [ASP](#) (four-month internship/seminar program) in Washington, D.C., may fulfill the requirements of the [Political Science](#) minor by the additional completion of [POL 2013](#) and [3003](#). Consult Political Science faculty for details.

Requirements for minor in Pre-Law

The student must successfully complete a minimum of 21 hours.

Required Courses - 15 hours

[BUS 2163 Business Mathematics](#)

[EGL 2393 Advanced Composition](#)

[POL 2013 American Government](#)

[POL 4243 Constitutional Law](#)

[POL 4313 Christianity and the Law](#)

Two of the following:

[BUS 4253 Business Law and Ethics](#)

[COM 4293 Media Law and Digital Ethics](#)

[FAM 4453 Family Law and Society](#)

PREPARATION FOR LAW SCHOOL

Current trends highlight the fact that law schools are not looking for Pre-Law majors but, instead, for students who have successfully completed a rigorous liberal arts program and who can perform well on the LSAT. The purpose of the JBU Pre-Law Professional Program is to assist students of all majors in developing the skills and knowledge necessary for active intellectual engagement in the first year of law school. The program also seeks to assist students as they explore their interest in the legal profession and the possible avenues in which those interests might best apply. To meet these goals, the Pre-Law Professional Program consists of the following components:

- > the [Pre-Law Minor](#) (listed under Political Science), which can be taken in conjunction with the degree of the student's choice, as a way to develop the verbal, written, and analytical skills necessary for law school;
- > the advice and guidance of the Pre-Law advisor;
- > mock LSAT available online;

- > an introduction to the integration of faith and the practice of law in JBU's [Christianity and the Law](#) course;
- > exposure to the law through JBU's [Constitutional Law](#), [Communication Law and Ethics](#), [Family Law and Society](#), and/or [Business Law](#) courses; and
- > the opportunity for competitive admissions and scholarships for The Law, Justice and Culture Institute, a two-week May-term course at Trinity Christian College for undergraduate students interested in law school. The course consists of legal study and analysis, guest speakers who are lawyers in a variety of fields, and a day trip to the University of Chicago, School of Law where students meet with law school personnel and sit in on a first-year law class. Three hours of Political Science credit can be earned.

Students interested in the Pre-Law Professional Program should contact the administrative assistant for the Division of Humanities and Social Sciences.

DEPARTMENT OF SOCIAL STUDIES

(SYMBOL: SST)

The Department of Social Studies provides supporting courses to programs in [Education](#) and [Intercultural Studies](#). Courses within the department are designed to encourage students to develop a global perspective on the modern world, including the individual and society, structures of power, and social institutions. Courses are designed to give students a greater appreciation for the effects of geographical factors on cultures, economics, and politics and the effects of cultural factors on human relations—factors such as language, economics, kinship, marriage, gender, social control, social stratification, religion, and art.

In conjunction with the College of Education, the Division of Humanities and Social Sciences offers the [Bachelor of Science in Education degree with a major in Social Studies](#). The Teaching Field consists of courses from four departments—[Economics](#), [History](#), [Political Science](#), and [Social Studies](#)—and prepares the prospective secondary teacher for multifaceted responsibilities in the classroom. The minor in [Social Studies](#) also draws coursework from diverse fields.

Requirements for the Bachelor of Science in Education (B.S.E.) degree with major in Social Studies

See [B.S.E. with major in Social Studies](#) under the College of Education.

[View 4-Year Plan](#)

Requirements for minor in Social Studies

The student must successfully complete 21 hours from courses in [Economics](#), [History](#), [Intercultural Studies](#), [Social Studies](#), and [Political Science](#). Of these, at least six hours must be in History and at least six hours each from any other two of these five departments. At least six hours must be upper-division courses.

DIVISION OF INTERDISCIPLINARY STUDIES

(SYMBOLS: COR, IDS)

Norwood (chair)

The Division of Interdisciplinary Studies offers the Associate of Arts, Bachelor of Science, and Bachelor of Arts degrees in [Interdisciplinary Studies](#), an Associate of Arts degree in [General Education](#), and a minor in [Military Science](#). It houses the [Gateway Seminar in Christian Scholarship](#), certain Honors Scholars courses, and courses relating to learning assistance and career planning.

Requirements for the Bachelor of Arts (B.A.), Bachelor of Science (B.S.), or Associate of Arts (A.A.) degree with major in Interdisciplinary Studies

In special circumstances, a student wishing to pursue a course of study not available within the stated offerings of John Brown University may present a petition to the Dean of Undergraduate Studies requesting approval of an individualized program leading to a bachelor's or associate's degree in [Interdisciplinary Studies](#). Such a program should be thoughtfully designed in consultation with a faculty advisor after the student has had significant college experience. Therefore, a student should not begin the proposal process prior to the second semester of the sophomore year. Neither bachelor's nor associate's Interdisciplinary Studies degrees are available to students pursuing another degree.

Bachelor's Interdisciplinary Studies Programs must conform to general university degree requirements, including the following:

- Full [Core Curriculum](#), possibly employing substitutions allowed within existing degrees.
- For B.A. programs, major field consisting of at least 36 semester hours and 12 hours of foreign language.
- For B.S. programs, major field consisting of at least 48 semester hours.
- The major field requirements must include courses from two or three different primary disciplines. These courses could also meet Core Curriculum requirements:
 - With two primary disciplines, each discipline should be at least 12 hours for B.A. programs and at least 16 hours for B.S. programs;
 - With three primary disciplines, each discipline should be at least 9 hours for B.A. programs and at least 12 hours for B.S. programs.
- At least 18 hours of upper-division courses included in the major field, with no presumption of waiver of specified prerequisites.
- Stated minimums for major, minor, and cumulative grade-point averages.
- Minimum credit of 124 total semester hours.

Associate's Interdisciplinary Studies Programs must conform to general university two-year degree requirements, including the following:

- Full 28-hour [Core Curriculum](#) as stated for associate's degrees, possibly employing existing exceptions.
- Major field consisting of at least 27 semester hours.
- The major field requirements must include courses from two different primary disciplines, each with at least 9 hours. These courses could also meet Core Curriculum requirements.
- Stated residency requirements.
- Stated minimums for major, minor, and cumulative grade-point averages.
- Minimum credit of 62 total semester hours.

A student considering an Interdisciplinary Studies degree should begin discussion with the general academic advisor toward the establishment of a Faculty Advisory Committee (FAC) to supervise the degree project. The FAC consists of two or three faculty members representing the academic colleges or divisions where substantial proportions of the desired courses are offered. FAC members offer guidance as the student initiates and navigates the process: defining/refining personal goals, designing a coherent program that is professionally relevant and academically valid, and completing the requirements as approved for the degree. One of the FAC members must also agree to be the student's academic advisor.

The student must submit to the Dean of Undergraduate Studies a detailed proposal that includes the following:

- Rationale for the desired major, including the student's personal aims.
- Documentation of any similar curricula offered by other accredited institutions.
- If the program is to form a foundation for advanced study, a statement of potential acceptability from a graduate institution to which the student may eventually apply.
- Specific course plan arranged in accordance with scheduled offerings stated in the catalog.
- Current transcript showing a grade-point average of at least 2.8.
- Signatures of members of the Faculty Advisory Committee.

Final approval of proposals for Interdisciplinary Studies is granted by the Undergraduate Council.

Requirements for the Associate of Arts (A.A.) degree with major in General Education

1. [University Core Curriculum](#) - 28 hours
2. Courses Specified by the Division - 21 hours

[BBL 3003 Evangelical Theology](#)

[BBL 4002 Capstone Seminar in Christian Life](#)

[EGL 4003 Masterpieces of Literature](#)

[KIN 10 1 Wellness Activity](#)

[POL 2013 American Government](#)

Core Electives

[Natural Science](#) - 3 additional hours

[The Arts](#) - 3 hours

[Philosophy](#) - 3 hours

3. Electives as necessary to complete minimum total hours

Minimum total semester hours 62

The Associate of Arts degree in General Education is not available to students pursuing four-year degrees.

DEPARTMENT OF MILITARY SCIENCE

(SYMBOLS: ARO, MSC)

By cross-town agreement with the University of Arkansas-Fayetteville, students at John Brown University may participate in the Reserve Officer Training Corps (ROTC) Programs of the United States Army and the United States Air Force. Refer to the [Reserve Officer Training Corps](#) section of this catalog for full descriptions of the opportunities available.

Requirements for minor in Military Science

Completion of a full ROTC program consisting of at least 18 semester hours, including six hours of upper-division courses.

DIVISION OF NATURAL SCIENCE

J. Beers, Blume, Ellenbarger, Funk, Greuel (chair), Hahn, Michael, Newton, Swearingen, Umesiri, Varner, Wakefield

The Division of Natural Science, consisting of the Departments of [Biology](#), [Chemistry](#), [General Science](#), [Mathematics](#), and [Physics](#) is equipped to give students excellent training in the indicated fields. Majors are offered in [Biology](#), [Chemistry](#), [Biochemistry](#), and [Mathematics](#); a minor field may be selected in any of the departments. Degrees that prepare students for professional careers are available as well. These include a [Teacher Education Program in Mathematics](#), and pre-professional programs leading to occupations in health fields, industry, scientific research, and college teaching.

Students with high achievement are encouraged to consider graduate study and to participate with faculty in various undergraduate research projects. Besides introductory and advanced courses for science-related majors, the Division offers [Core Curriculum](#) courses that provide a breadth of practical scientific knowledge to students throughout the university. In each area of the curricula, the Division desires to provide an understanding of the natural world that can help our students to become established as Christian thinkers, prepared for God-honoring careers and service.

Preparation for Medical School and Other Professional Study

"Pre-medicine" is not a major at John Brown University. At most institutions of higher learning, a curriculum termed "pre-medicine" means simply that a student is meeting requirements for admission to medical school and, therefore, in addition to working toward a baccalaureate degree in some discipline, the student is satisfying these specific requirements. JBU has a Pre-Health Professions Program (PHPP) for students preparing for training as a physician, dentist, optometrist, veterinarian, pharmacist, or a career in one of the allied health professions, such as a physician assistant, physical therapist, occupational therapist, and public health administrator, among others. While students in any major may participate in the PHPP, majors in [Biology](#), [Chemistry](#), or [Biochemistry](#) provide particularly good preparation for careers in the health professions. All students in the PHPP must fulfill certain course and internship requirements under the guidance of the Health Professions Advisory Committee that are largely determined by the professional schools of interest to the student.

DEPARTMENT OF BIOLOGY

(SYMBOL: BIO)

The Department of Biology offers courses designed to give students a broad foundation in the principles of biology and a familiarity with current questions in specific subdisciplines of biology. The approach taken by the department is to help students understand the scientific method and the key scientific facts, concepts, and theories of life processes, while emphasizing harmony with a Biblically-based worldview.

In cooperation with other departments in the Division of Natural Science, the Biology Department offers pre-professional training for students interested in a wide variety of health-related careers such as medicine, dentistry, veterinary medicine, nursing, optometry, pharmacy, physical therapy, occupational therapy, physician assistance, and public health. A major in Biology is also excellent preparation for graduate training in many specialized areas of biology. Graduates of the Biology Department may look

forward to careers in a number of fields, including teaching, research, bioethics, biotechnology, field biology/naturalist area, camp and recreation, missions, and government service. A degree in Biology can also be combined with a minor in [Education](#) to prepare for alternative secondary teaching certification. Finally, the Department of Biology offers courses that fulfill the Life Sciences and Global Studies components of the university Core Curriculum.

Student Learning Outcomes

- 1. Describe and apply key principles, terms, and theories.** Students will be able to describe and apply key principles, terms, and theories in the major subfields of biology.
- 2. Use scientific instruments and perform basic laboratory techniques.** Students will be able to use scientific instruments and perform basic techniques in a laboratory or field setting.
- 3. Collect and analyze observational and numerical data.** Students will be able to collect and analyze observational and numerical data to answer biological questions.
- 4. Use library and computer resources.** Students will be able to use library and computer resources to retrieve biological information and process data.
- 5. Critically read and evaluate biological literature.** Students will be able to read, interpret, and critically evaluate the primary biological literature and primary or secondary literature in bioethics and/or the philosophy of science.
- 6. Communicate biological information in oral and written form.** Students will be able to communicate biological information in both oral and written form for the benefit of other students, scientists, and the general public.
- 7. Integrate Christian faith with biology and examine its implications.** Students will be able to integrate the Christian faith with the field of biology and examine the implications this has for addressing questions in science, theology, philosophy, bioethics, or public policy.

Requirements for the Bachelor of Science (B.S.) degree with major in Biology

1. [University Core Curriculum](#) - 46 hours

The [Mathematics](#) elective is covered by MTH 1123, the [Life Science](#) elective is covered by BIO 1124, and the [Physical Science](#) elective is covered by CHM 1124 in the program requirements.

2. Courses Specified by this Department

A. Biology Major Core - 34-36 hours

[BIO 1124 Cell Biology](#)

[BIO 1144 Plant and Animal Diversity](#)

[BIO 2174 Genetics](#)

[BIO 2184 Ecology and Evolution](#)

[BIO 3302 Field Experience](#) (required of all students in the Pre-Health Professions Program)

[BIO 4501 Biology Capstone](#)

[CHM 1124 General Chemistry I](#)

[CHM 1134 General Chemistry II](#)

[MTH 1123 Survey of Calculus](#)

[MTH 2103 Applied Statistics for Scientists](#)

One of the following:

[BIO 4103 Bioethics](#)

[GSC 4133 Faith and Science](#)

B. Biology Major Electives - 20 hours of upper-division [Biology](#) courses, which may include [CHM 3164](#) and as many as four hours of research ([BIO 4221](#), [4222](#), or [4223](#))

3. Additional courses, selected in consultation with academic advisor, for completion of a minor or fulfillment of prerequisites for graduate school, medical school, dental school, or other professional schools. May also include additional upper-division Biology courses, including additional hours of research ([BIO 4221](#), [4222](#), or [4223](#)), or courses applied toward completion of a second major.

4. Complete a standardized achievement test designated by the department

5. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Students interested in teaching Biology should consider adding a minor in [Education](#).

Requirements for minor in Biology

The student must successfully complete a minimum of 20 hours.

Required courses – 4 hours

[BIO 1124 Cell Biology](#)

An additional 16 hours selected from [BIO](#)

At least eight hours must be upper-division courses

DEPARTMENT OF CHEMISTRY

(SYMBOL: CHM)

The science of chemistry deals with the composition and changes of matter. The Department of Chemistry offers courses in which students study fundamental principles that provide a strong basis for understanding the physical world and provide opportunity to develop laboratory skills.

Chemistry courses address such topics as theories of atomic and molecular structure and the nature of chemical reactions. Courses are specifically designed to provide a foundational knowledge of chemistry necessary for understanding biological processes, to help students develop a scientific attitude, to give practice in the experimental method, to provide training in laboratory techniques, to enable the student to acquire the chemical background necessary for certain specialized professions and vocational fields, and to acquaint students with the chemical aspects of our environment and our civilization. A degree in Chemistry with a minor in [Education](#) will prepare students for alternative secondary teaching certification.

Student Learning Outcomes

1. **Fundamental Concepts.** Students will demonstrate an understanding of the basic concepts, terminology, and theories in the major sub-disciplines of the field of chemistry: organic, inorganic, analytical, physical chemistry, and biochemistry (if applicable).
2. **Problem-Solving Skills.** Students will exhibit the tools necessary for problem-solving in both the classroom and lab and will demonstrate the ability to conduct inquiry-based experiments. Students will be able to clearly define problems, propose testable hypotheses, design and carry out experiments, analyze data using statistical methods and appropriate computer programs, draw defensible conclusions, and describe sources of error.
3. **Chemical Literature Competence.** Students will possess skills necessary to locate scientific articles using online, interactive database-searching tools. Once retrieved, students will be able to analyze and critically evaluate technical articles.
4. **Communication Skills.** Students will be able to effectively communicate technical information both in written and oral forms. Students should be able to critically assimilate knowledge from different locations and prepare clear and organized oral presentations and write concise reports in scientifically-appropriate styles.
5. **Collaborative Experience.** Students will exhibit the skills necessary to work in teams, working collaboratively to solve problems. Students will have opportunities to serve as peer leaders and interact with diverse team members in a professional manner.

6. **Lab Safety Skills.** Students will understand safe lab practices and how to apply them. Students should recognize potential hazards and disposal techniques as well as know how to handle lab emergencies.

7. **Ethics and Christian Perspective.** Students will know how to conduct themselves responsibly and professionally and appreciate the role of chemistry in contemporary issues. Students will examine the importance of integrating Christian faith into their discipline.

Requirements for the Bachelor of Science (B.S.) degree with major in Chemistry

1. [University Core Curriculum](#) - 49 hours

The [Mathematics](#) elective is covered by MTH 1134 and the [Physical Science](#) elective is covered by either CHM 1124 or PHY 2114 in the program requirements.

2. Courses Specified by this Department - 58 hours

[CHM 1124 General Chemistry I](#)

[CHM 1134 General Chemistry II](#)

[CHM 3114 Advanced Analytical Chemistry](#)

[CHM 3134 Organic Chemistry I](#)

[CHM 3144 Organic Chemistry II](#)

[CHM 3183 Advanced Inorganic Chemistry](#)

[CHM 4124 Physical Chemistry I](#)

[CHM 4134 Physical Chemistry II](#)

[CHM 4501 Chemistry/Biochemistry Capstone](#)

[GSC 4133 Faith and Science](#)

[MTH 1134 Calculus I](#)

[MTH 1144 Calculus II](#)

[MTH 2103 Applied Statistics for Scientists](#)

[PHY 2114 General Physics I](#)

[PHY 2124 General Physics II](#)

Four hours from among the following (three hours maximum in research):

[CHM 1101 Chemistry Practicum](#)

[CHM 2151 Seminar: Nanotechnology](#)

[CHM 3101 Chemistry Practicum: Teaching](#)

[CHM 3151/52/53/54 Selected Topics](#)

[CHM 3164 Biochemistry I](#)

[CHM 3174 Biochemistry II](#)

[CHM 4221/22/23 Chemistry Research](#)

3. Complete a standardized achievement test designated by the department

4. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for the Bachelor of Science (B.S.) degree with major in Biochemistry

1. [University Core Curriculum](#) - 46 hours

The [Mathematics](#) elective is covered by MTH 1134, the [Life Science](#) elective is covered by BIO 1124, and the [Physical Science](#) elective is covered by either CHM 1124 or PHY 2114 in the program requirements.

2. Courses Specified by this Department - 67 hours

[BIO 1124 Cell Biology](#)

[BIO 3174 Molecular Cell Biology](#)

[CHM 1124 General Chemistry I](#)

[CHM 1134 General Chemistry II](#)

[CHM 3114 Advanced Analytical Chemistry](#)

[CHM 3134 Organic Chemistry I](#)

[CHM 3144 Organic Chemistry II](#)

[CHM 3164 Biochemistry I](#)

[CHM 3174 Biochemistry II](#)

[CHM 3183 Advanced Inorganic Chemistry](#)

[CHM 4124 Physical Chemistry I](#)

[CHM 4501 Chemistry/Biochemistry Capstone](#)

[MTH 1134 Calculus I](#)

[MTH 1144 Calculus II](#)

[PHY 2114 General Physics I](#)

[PHY 2124 General Physics II](#)

One of the following:

[BIO 4103 Bioethics](#)

[GSC 4133 Faith and Science](#)

Four hours from the following:

[BIO 3334 Microbiology](#)

[BIO 3524 Human Physiology](#)

[BIO 3614 Virology](#)

[BIO 4221/22/23 Biological Research](#)

[CHM 2151 Seminar: Nanotechnology](#)

[CHM 3151/52/53/54 Selected Topics](#)

[CHM 4134 Physical Chemistry II](#)

[CHM 4221/22/23 Chemistry Research](#)

3. Complete a standardized achievement test designated by the department

4. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Students interested in teaching Chemistry should consider adding a minor in [Education](#).

Requirements for minor in Chemistry

The student must successfully complete a minimum of 20 hours, selected from the following:

[CHM 1124 General Chemistry I](#)

[CHM 1134 General Chemistry II](#)

[CHM 3114 Advanced Analytical Chemistry](#)

[CHM 3134 Organic Chemistry I](#)

[CHM 3144 Organic Chemistry II](#)

[CHM 3164 Biochemistry I](#)

[CHM 3183 Advanced Inorganic Chemistry](#)

DEPARTMENT OF GENERAL SCIENCE

(SYMBOL: GSC)

Requirements for minor in General Science

The student must successfully complete a minimum of 18 hours.

Required courses - must be taken in at least two of the following departments: [Biology](#), [Chemistry](#), [Physics](#), and [General Science](#)

At least eight hours must be upper-division courses

DEPARTMENT OF MATHEMATICS

(SYMBOL: MTH)

The Department of Mathematics offers courses which provide a solid foundation in the mathematical sciences consistent with a Christian worldview. The curriculum is designed to provide the [Mathematics](#) major with the knowledge and skills necessary to enter a career in teaching, insurance and finance, industry, or to continue into graduate school. The department also offers a core curriculum course and support courses for students majoring in [Engineering](#), [Chemistry](#), [Biology](#), [Business](#), [Elementary Education](#), and [Pre-Professional Programs](#).

Student Learning Outcomes

1. Students will *apply* mathematical concepts to problems in science, engineering, and statistics (and possibly other fields chosen by the instructor).

2. Students will *perform computations* according to standard rules.
3. Students will think abstractly by *devising proofs* in pure mathematics.
4. Students will understand and explain the purpose and meaning of *axioms, definitions, and theorems* in abstract mathematics.
5. Students will *communicate* mathematical concepts effectively.
6. Students will evaluate and discuss various *integrative strategies* at the interface of Christian belief and scientific/mathematical knowledge.

Requirements for the Bachelor of Science (B.S.) degree with major in Mathematics

1. [University Core Curriculum](#) - 49 hours

The [Mathematics](#) elective is covered by MTH 1134 and the [Physical Science](#) elective is covered by PHY 2114 in the program requirements.

2. Courses Specified by this Department - 50 hours

[CS 1113 Introduction to Computing](#)

[GSC 4133 Faith and Science](#)

[MTH 1134 Calculus I](#)

[MTH 1144 Calculus II](#)

[MTH 2111 Problem-Solving Seminar](#) (to be taken twice)

[MTH 2114 Linear Algebra and Differential Equations](#)

[MTH 2123 Vector Calculus](#)

[MTH 3103 Foundations of Mathematics](#)

[MTH 4123 Abstract Algebra](#)

[MTH 4143 Real Analysis](#)

[MTH 4501 Mathematics Capstone](#)

[PHY 2114 General Physics I](#)

[PHY 2124 General Physics II](#)

One of the following:

[MTH 3173 Mathematical Modeling and Simulation](#)

[MTH 3183 Probability and Statistics](#)

An additional six hours of upper-division mathematics courses

3. Complete a standardized achievement test designated by the department

4. Electives as necessary to complete minimum total hours

Minimum total semester hours 124

[View 4-Year Plan](#)

Requirements for minor in Mathematics

The student must successfully complete a minimum of 21 hours.

Required courses – 3hours

[MTH 2123 Vector Calculus](#)

An additional 18 hours selected from [MTH](#)

At least six hours must be upper-division courses

Requirements for the Bachelor of Science in Education (B.S.E.) degree with major in Mathematics

See [B.S.E. degree with major in Mathematics](#) in the College of Education and Human Services.

[View 4-Year Plan](#)

DEPARTMENT OF PHYSICS

(SYMBOL: PHY)

The courses in this department are planned to meet the requirements of students who intend to specialize in engineering, chemistry, or allied subjects; or are fulfilling pre-medical, pre-dental, or similar pre-professional requirements.

Requirements for minor in Physics

A minimum of 18 hours from [PHY](#) (excluding [1114](#) and [1124](#))

At least six hours must be upper-division courses

COURSE DESCRIPTIONS

Course offerings are numbered utilizing four digits, the first indicating college year and the last the number of semester hours credit.

Courses numbered 0001 to 0999 are considered remedial; hours do not count toward minimum requirements for graduation.

Courses numbered 3001 to 4999 fulfill requirements for upper-division credits. Most of these courses have specified prerequisites.

A *prerequisite* course must have been completed with an acceptable passing grade before enrollment in the given course is permitted.

A *corequisite* is a course in which a student must be enrolled and satisfactorily participating concurrently with the given course.

- Aerospace Studies ~ Air Force ROTC (ARO)
- Art and Design (ART)
- Accounting (ATG)
- Bible (BBL)
- Biology (BIO)
- Business Administration (BUS)
- Chemistry (CHM)
- Construction Management (CM)
- Christian Ministries (CMN)
- Communication (COM)
- Core Curriculum (COR)
- Computer Science (CS)
- Economics (ECN)
- Education (ED)
- Electrical Engineering (EE)
- English (EGL)
- Engineering (EN)
- Family and Human Services (FAM)
- General Science (GSC)
- History (HST)
- Honors
- Intercultural Studies (ICS)
- Interdisciplinary Studies (IDS)
- International Business (INT)
- Kinesiology (KIN)
- Latin American Studies-Costa Rica (LCR)
- Leadership (LDR)
- Language Studies (LS)
- Language Studies ~ Semester in Spain (LSS)
- Mechanical Engineering (ME)
- Management (MGT)
- Marketing (MKT)
- Military Science ~ Army ROTC (MSC)
- Mathematics (MTH)
- Music (MUS)
- Nursing (NUR)
- Physics (PHY)
- Political Science (POL)
- Psychology (PSY)
- Renewable Energy (RE)
- Religion and Philosophy (RPH)
- Social Studies (SST)
- Theatre (THE)

ARO (Aerospace Studies – Air Force ROTC)

ARO 1011, 1021 The Foundations of the United States Air Force I, II

Each course, one hour

A survey course designed to introduce cadets to the United States Air Force and Air Force Reserve Officer Training Corps. Topics include mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Accompanying the classroom instruction, leadership labs ARO 1011L and 1021L provide hands-on application of classroom topics and further introduction to Air Force opportunities, in an environment that illustrates the basic structure of the Air Force. Standard physical fitness regimen and testing are also required. One hour of classroom and two hours of lab per week.

1011 and 1011L offered fall semester
1021 and 1021L offered spring semester

ARO 2011, 2021 The Evolution of Air and Space Power I, II

Each course, one hour

A historical survey of air and space power, from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples illustrate the development of Air Force capabilities and missions. Additional topics: Principles of War and Tenets of Air and Space Power. Corequisites to the course work are leadership labs, ARO 2011L and 2021L, which provide hands-on application of classroom topics and further introduction to Air Force opportunities, in an environment that illustrates the basic structure of the Air Force. Standard physical fitness regimen and testing are also required. One hour of classroom and two hours of lab per week. Wellness Activity requirement of the Core Curriculum will be waived upon completion of both of these courses.

2011 and 2011L offered fall semester
2021 and 2021L offered spring semester

ARO 3013, 3023 Air Force Leadership Studies I, II

Each course, three hours

A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations. Leadership labs ARO 3013L and 3023L offer concrete leadership practice, including the planning and controlling of military activities of the cadet corps, and preparing various communications. Standard fitness regimen and testing are also required. Three hours of classroom and three hours of lab per week. Wellness or Lifetime Fitness requirement of the Core Curriculum will be waived upon completion of both of these courses.

3013 and 3013L offered fall semester
3023 and 3023L offered spring semester

ARO 4013, 4023 National Security Affairs and Preparation for Active Duty I, II

Each course, three hours

An examination of the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Communication skills are honed within this structure. Leadership labs ARO 4013L and

ARO 4023L include dispensing interviews, guidance, and information, which will increase the understanding, motivation, and performance of other cadets. Physical fitness regimen and testing are also required. Three hours of classroom and three hours of lab per week.

4013 and 4013L offered fall semester
4023 and 4023L offered spring semester

Visual Arts (ART) Courses

ART 1123 Computer Graphics

Three hours

Introduction to current professional software programs used in the fields of graphic design, illustration, digital media, and photography. Taught on the Macintosh platform. An additional fee associated with this course.

Offered each semester

ART 1133 Visual Art Foundation

Three hours

A study of the theory and practice of the creative process by focusing on key historical influences and modern trends while incorporating an introduction to the practice of formal art and design principles through hands-on experimentation.

Offered fall semester

ART 1243 Drawing I

Three hours

An experience in developing visual perception through observation and then translating three-dimensional forms into two-dimensional images. Nature, still-life, and an introduction to figure drawing are included.

Offered each semester

ART 2103 Foundations of Digital Editing

Three hours

This is the Digital Cinema student's introduction to cinematic editing using non-linear digital editing tools. Course work utilizes both progressive instruction in theory and techniques while working on major projects that will form the basis of student's digital media portfolio. An additional fee associated with this course.

Offered fall semester

Offered spring semester (even-numbered years)

ART 2113 Introduction to Cinema

Three hours

An introduction to the skills and art of filmmaking. Theories, genres, and the history of cinema are addressed. Students' explorations of the language and grammar of film culminate in the actual production of their first short form narrative work. An additional fee associated with this course. Prerequisite: [ART 2103](#).

Offered spring semester

ART 2123 Cinematography

Three hours

An introduction to digital cinema through classroom lecture and hands-on workshops, and major film-making assignments. Students gain experience as visual storytellers while learning to create mood and

evoke emotion through the combination of cinematic techniques, camera operation, cinematic lighting and sound acquisition. An additional fee associated with this course. Prerequisite: [ART 2103](#).

Offered fall semester

ART 2153 European Arts and Culture

Three hours

A study of the historical development of European painting, sculpture, architecture, and music from 1000 A.D. to the present. Special attention is given to the connection between art forms, culture, and worldviews. As part of the German Studies Program, the course combines academic course work with visits to important cultural sites in Germany, Austria, and Italy. Meets The Arts requirement of the Core Curriculum.

Offered summer, [German Studies Program](#)

ART 2163 Irish Art and Culture

Three hours

A study of Irish art forms such as painting, sculpture, architecture, and film. Special attention is given to the connection between art forms and Irish history and culture. As part of the Irish Studies Program, the course combines academic course work with visits to important cultural sites in Ireland as well as guest lecturers from contemporary artists. Meets The Arts requirement of the Core Curriculum.

Offered [Irish Studies Program](#)

ART 2213 Color Studies

Three hours

An opportunity to explore the transient nature of color by studying the properties of and the relationships between colors. Other related topics will be the psychology of color and current trends. The information gained through this study is essential for those entering any major in the Department of Visual Arts.

Offered each semester

ART 2233 Art History I

Three hours

An introduction to the major people and works responsible for our visual heritage. Students will work toward the goal of developing visual literacy, in the areas of fine art, design, and architecture. Visual Arts majors or minors only. Meets The Arts requirement of the Core Curriculum.

Offered each semester

ART 2253 Graphic Design I

Three hours

An introduction to the world of graphic design from typography and design to layout and printing. Includes practice in design of materials such as logos, brochures, posters, and advertising.

Offered each semester

ART 2263 Graphic Design II

Three hours

A continuation of the study of graphic design, with increased emphasis on comping techniques, craftsmanship, typography, problem solving, presentation, and production on the Macintosh. Prerequisite: [ART 2253](#).

Offered each semester

ART 2273 3D Modeling

Three hours

This course is an introduction to digital modeling for graphic design. Various 2D image manipulation and 3D modeling applications will be used to explore the integration of digital 3D modeling for graphic design. An additional fee associated with this course. Prerequisite: [ART 1123](#).

Offered each semester

ART 2333 Art, Design, and Creativity

Three hours

A study of the theory and practice of the creative process by focusing on key historical influences and modern trends, while incorporating an introduction to the practice of formal art and design principles through hands-on experimentation. This course is designed for students who are not majoring in the visual arts. Meets The Arts requirement of the Core Curriculum.

Offered fall semester (odd-numbered years)

ART 2343 European Art Tour

Three hours

Students tour a major art center of Europe, analyzing masterworks in their historical context, gaining cultural experience, and enriching their own artistic foundations. It is hoped that this experience will result in greater motivation, inspiration, craftsmanship, and depth in the students' creative work. Course requirements include preliminary research targeting at least one of the region's prominent artists, a journal, and a personal summary paper. Meets The Arts requirement of the Core Curriculum.

Offered summer

ART 2403 Photo 1: Introduction to Photography

Three hours

A beginner's overview to the mechanical and digital tools and skills required for the modern art of photography. Emphasis is placed on exposure, composition, formal aesthetics, and lighting of the student's photographic vision. The course includes a fundamental study of the photographic process, visual literacy, and artistic criticism necessary for students to advance in study. Visual Arts majors have priority for this course. An additional fee associated with this course.

Offered each semester

ART 2453 Drawing II

Three hours

An advancing study of drawing, with emphasis on further development of technical skills as well as conceptual visual thinking. Focus is given to the expressive qualities of drawing as finished pieces of art. Prerequisite: [ART 1243](#).

Offered spring semester

ART 2463 Photo 2: Traditional Darkroom

Three hours

A studio class where students refine and expand photographic skills by learning classical silver printing in the traditional photographer's darkroom. Skills include shooting and developing black and white film. An additional fee associated with this course. Prerequisite: [ART 2403](#).

Offered fall semester

ART 2503 Typography

Three hours

A study of the use of type in graphic design. Topics include the history of type, choosing type, and the technical aspects of setting type. Prerequisite: [ART 1123](#).

Offered fall semester

ART 2613 Digital Illustration

Three hours

An introduction to creating illustrations on the computer using various image editing software. Various techniques of image manipulation or creation in Photoshop will be covered. Emphasis is given to aesthetic designs and software techniques. Strong drawing skills and digital photography skills recommended. An additional fee associated with this course. Prerequisite: [ART 1123](#).

Offered fall semester

ART 3153 Photo 3: Digital Darkroom

Three hours

A focused look at digital photography processing encompassing capture, color management, device profiling, calibration, and printing. The course provides an advanced study in software image enhancement, retouching, and repairing. All course assignments are professionally printed at the highest digital standards. An additional fee associated with this course. Prerequisites: [ART 1123](#) and [2403](#).

Offered each semester

ART 3203 History of Advertising and Design

Three hours

A survey of key movements, trends, people, and innovations in the history of advertising and design. Students view work, read histories, and study concepts from the world of design, in hopes of gaining an appreciative understanding of the foundational artistic images and ideas that have been both a response to and an influence upon the culture at large. This analysis of historical commercial art will solidify students' own creative foundations for success in numerous professional fields—web design, advertising, industrial, product design, and graphic design.

Offered fall semester

ART 3223 Advanced 3D Modeling

Three hours

This course explores advanced 3D computer modeling and animation applications. Techniques in polygon and NURBS modeling techniques, texturing, rendering, and basic animation are covered. Good drawing skills are recommended for taking this course. An additional fee associated with this course. Prerequisite: [ART 2273](#).

Offered spring semester

ART 3233 Art History II

Three hours

This class continues the visual literacy begun in Art History I with topics that are beyond the scope of the general survey in Art History I. Instruction will focus on specific themes such as Eastern art history, modern art history, religious studies in art history, etc.

Offered spring semester (odd-numbered years)

ART 3263 Graphic Design III

Three hours

Advancing topics in the study of graphic design, with special attention paid to the areas of corporate identity and advertising design. Prerequisites: [ART 2263](#) and [2503](#).

Offered each semester

ART 3283 Graphic Design in Social Context

Three hours

In the context of a study abroad program, Graphic Design in Social Context focuses on the integration of graphic design education and practical hands-in experience in social and cultural setting. Prerequisites: [ART 2263](#) and [2503](#).

Offered summer

ART 3313 Interactive Design I

Three hours

This class builds on the principles of design presented in Graphic Design I, with an introduction to practicing design within an interactive perspective. Topics covered will include emerging technologies, brand experience, mobile design, and app brand development. An additional fee associated with this course. Prerequisite: [ART 2253](#).

Offered each semester

ART 3323 Figure Drawing I

Three hours

A visual study of the human anatomical construction. Emphasis on gesture, form, light source, shadow-mass, and composition. Prerequisite: [ART 1243](#).

Offered fall semester

ART 3333 Interactive Design II

Three hours

This class is an extension of the principles and practices presented in Interactive Design I. The class furthers knowledge and practice in interactive design for the Web, mobile, and emerging technologies. An additional fee associated with this course. Prerequisite: [ART 3313](#).

Offered spring semester

ART 3353 Studio Art: Selected Topics

Three hours

A studio course in which media and techniques are chosen according to student need and departmental specialties. May be repeated for credit when content differs.

Offered fall semester (odd-numbered years)

Offered spring semester (even-numbered years)

ART 3383 Oil Painting I

Three hours

Studio course with demonstrations, group critiques, and individual instruction to assist the student in learning the basic techniques of painting. Prerequisite: [ART 1243](#).

Offered fall semester (even-numbered years)

Offered spring semester (odd-numbered years)

ART 3393 Oil Painting II

Three hours

Continuation of the study of oil painting with emphasis on creativity. Prerequisite: [ART 3383](#).

Offered fall semester (even-numbered years)
Offered spring semester (odd-numbered years)

ART 3403 Film Theory and Criticism

Three hours

An examination of the origins and development of film criticism and theory that includes both an analysis of selected motion pictures and the application of theoretical principles. Various schools of analysis are considered, including genre, auteur, feminist, Marxist, and Christian. Prerequisites: [ART 2113](#) and [2123](#).

Offered fall semester

ART 3423 Figure Drawing II

Three hours

A focus on the experimental and expressive use of the figure. Prerequisite: [ART 3323](#).

Offered spring semester

ART 3453 Illustration I

Three hours

An exploration of foundational illustration techniques. Rendering in various media is emphasized.

Offered fall semester

ART 3463 Illustration II

Three hours

An advancing study of illustration with emphasis on creativity and solving conceptual problems. Prerequisite: [ART 3453](#).

Offered spring semester

ART 3503 Motion Graphics

Three hours

An introduction to motion graphics utilizing video and/or animation technology to create the illusion of motion or a transforming appearance. The course will focus primarily on developing a proficiency in Adobe AfterEffects working on assignments and projects for use in multimedia and digital media projects. An additional fee associated with this course. Prerequisites: [ART 1123](#) and [2253](#); [ART 3313](#) or [2103](#) recommended.

Offered fall semester (even-numbered years)

ART 3513 Fine Art Photography and Society

Three hours

In the context of a study abroad program, an introduction to the historical genres and continuing methodologies of art photography as applicable to the human geography and social situations of the locale. Students gain hand-on experience as they apply various exercises that explore and evaluate artistic photography using creative methods. Projects involve producing photography in the traditions of nature,

landscape, social documentary, and others. May substitute for [ART 4133](#) in Visual Arts curricula. An additional fee associated with this course. Prerequisites: [ART 2403](#) and [3523](#).

Offered summer

ART 3523 Lighting for Photography and Cinema

Three hours

This course is designed to build on the introductory lighting coursework for Photography and Cinema majors. Topics addressed include: lighting theory, varied lighting equipment, light modeling, and staging on set or location. Projects would favor major emphasis. An additional fee associated with this course. Prerequisite: [ART 2403](#) or [2123](#).

Offered spring semester

ART 3543 Photography in Social Context

Three hours

In the context of a study abroad program, an introduction to the commercial photography and the society of a host country. Students make careful observation of the use and effectiveness of commercial photography, and participate in hands-on assignments that attempt to use photography as a commercial influence. Participants often have opportunity to apply the knowledge as they work for a local publication, gaining both quality experience and portfolio enhancement. May substitute for [ART 4353](#) in Visual Arts curricula. An additional fee associated with this course. Prerequisites: [ART 2403](#) and [3523](#).

Offered summer

ART 3553 Social Documentary Photography Abroad

Three hours

In the context of a study abroad program, an introduction to documentary photography and the society of a host country. Students make careful observation of the habits and purposes of a people group and document those observations through photography. Participants often have opportunity to apply the knowledge as they work for a local publication and/or ministry, gaining both quality experience and portfolio enhancement. May substitute for [ART 4183](#) in Visual Arts curricula. Meets the Global Studies requirement in the Core Curriculum. An additional fee associated with this course. Prerequisites: [ART 2403](#) and [3523](#).

Offered summer

ART 3563 History of Photography

Three hours

This course examines photographic history and the medium's role in both reflecting and shaping the cultural, social, political, economic, and scientific context of modernity from 1839-now. Emphasis will be placed on early photographic personalities, technologies, and the critical response to the medium. Prerequisites: [ART 2233](#) and [2463](#).

Offered fall (odd-numbered years)

ART 3573 Alternative Darkroom

Three hours

A studio course exploring alternative photographic processes. Topics include pinhole photography, large format negatives, wet plate collodion, new cyanotype, gum-bichromate and platinum-palladium printing. An additional fee associated with this course. Prerequisites: [ART 2463](#) and [3153](#).

Offered spring semester (even-numbered years)

ART 3583 Cinematic Audio Production

Three hours

Advanced techniques of cinematic audio acquisition and audio post-production. Students will have the opportunity to work with state of the art technology, receiving hands-on training in aesthetic, technical, and theoretical approaches to sound, emphasizing the recording and mixing sound for motion pictures. An additional fee associated with this course. Prerequisites: [ART 2113](#) and [2123](#).

Offered fall semester

Offered spring semester (odd-numbered years)

ART 3623 Advanced Studio I

Three hours

Advanced supervised study in the student's choice of media. This course will provide the opportunity for focused research, conceptualization, and application in the student's area of interest. Prerequisite: consent of instructor.

Offered fall semester

ART 3633 Advanced Studio II

Three hours

Continued advanced supervised study in the student's choice of media. This course will provide the opportunity for focused research, conceptualization, and application in the student's area of interest. Prerequisites: completion of required courses in the area and consent of instructor.

Offered spring semester

ART 3643 Introduction to Printmaking

Three hours

This studio course introduces basic printmaking processes and equipment, with equal emphasis on concept and technique. Students are introduced to a variety of printmaking methods such as monotype, relief and intaglio, and various approaches to making and printing plates in each medium. An additional fee associated with this course. Prerequisites: [ART 1133](#) and [1243](#).

Offered fall semester

ART 3653 Screenprinting

Three hours

This studio course introduces the basic concepts and technical skills of screenprinting. Students learn fine art applications of screenprinting, as well as registration, stencil, drawing, and digital output application. This history of screenprinting is also discussed. An additional fee associated with this course. Prerequisites: [ART 1123](#) and [1243](#).

Offered spring semester

ART 3703 Screenwriting

Three hours

An introduction to and overview of dramatic writing for film as expressed in professional screenplay form. This course utilizes exercises in dramatic writing: theme, plot, character, dialogue, and images as well as analysis of award-winning screenplays and their cinematic rendering. Integration of these elements into scenes and sequences with expected outcome of a screenplay for a short form narrative. Prerequisite: [ART 3403](#).

Offered spring semester (even-numbered years)

ART 3881, 3882, 3883 Selected Topics

One to three hours

Study of a topic not directly addressed in the regular curriculum. Topics are chosen according to student need and departmental specialties. May be repeated for credit when content differs.

Offered upon sufficient request

ART 4103 Portfolio and Presentation

Three hours

Practical business aspects of the professions of graphic design, illustration, and digital media, including development of a free-lance business, interviewing for jobs, portfolio development, and self-promotion. Prerequisite: senior standing.

Offered each semester

ART 4121, 4122 Visual Art Practicum

One or two hours

45 Hours of studio/lab assistance per credit hour in one of the Visual Art studios or labs. Students will work under the direct supervision of a faculty member in providing help with the operation and maintenance of a classroom lab or studio space. May be repeated for credit. Prerequisite: instructor consent.

Offered each semester

ART 4133 Fine Art Photography

Three hours

An exploration of artistic expression through both traditional and digital imaging techniques. The course focuses on conceptual and interpretive photography and incorporates a critical, evaluative component that expands and informs the students' understanding of photography as a fine art, past and present. An additional fee associated with this course. Prerequisites: [ART 2403](#) and [3523](#).

Offered spring semester

ART 4163 Non-Fiction Film Production

Three hours

The analysis of the methods, genre, and history of non-fiction film, for application to hands-on documentary production. Progressive assignments through the semester focus on personal student-led filmmaking, culminating in several finished films worthy of entry in documentary film festivals nationwide. An additional fee associated with this course. Prerequisites: [ART 2113](#), [2123](#), and consent of instructor.

Offered fall semester (even-numbered years)

ART 4173 Narrative Film Production

Three hours

The application of traditional narrative film production roles and techniques using digital cinema. Students are given the opportunity to fill various crew assignments as they work in teams to complete a short form narrative in one semester. An additional fee associated with this course. Prerequisite: [ART 3403](#).

Offered spring semester (odd-numbered years)

ART 4183 Social Documentary Photography

Three hours

A critical look at both documentary and photo journalistic photography genres that provide an emphasis on developing a thoughtful approach to seeking and making meaningful photographs that attract, inform, and communicate. This course involves a sociological and cultural analysis with demanding deadlines that expose students to the realities of working photojournalists. An additional fee associated with this course.

Prerequisite: [ART 2403](#).

Offered spring semester

ART 4313 Illustration III

Three hours

Designed to challenge students to further develop earlier illustration techniques and to introduce several advanced techniques, emphasis is on the production of professional portfolio-quality illustrations.

Prerequisite: [ART 3463](#).

Offered fall semester

ART 4353 Commercial Studio Photography

Three hours

An advanced look at the photographic areas of portraiture, food and beverage, fashion, industry, editorial, advertising, and self-promotion photography. The course includes work with digital, 35mm, medium format, and professional 4x5 view cameras. Studio lighting experience is gained with both strobe and hot light setups. An additional fee associated with this course. Prerequisites: [ART 2403](#) and [3523](#).

Offered fall semester

ART 4413 Graphic Design IV

Three hours

Advanced projects and critique along with information and discussion on technical print production issues.

Prerequisite: [ART 2263](#).

Offered spring semester

ART 4423 Internship

Three hours

On-the-job work experience in a creative position/business, as approved by the student's advisor.

Offered each semester

ART 4953 Capstone Exhibition

Three hours

Guided planning, preparation, and production of an art exhibit to be mounted in the JBU Art Gallery or other appropriate gallery space. Students will learn professional art business practices in the development of their exhibitions. Prerequisite: senior Fine Art Concentration majors in their final semester.

Offered spring semester

ART 4963 Senior Comprehensive Project

Three hours

Original interactive creative works demonstrating proficiency in the fundamental and specialized areas of digital media. Prospective graduates glean assistance through seminar discussion and interactive critiques

as they refine their skills in preparation for the realities of the professional world. An additional fee associated with this course. Prerequisite: senior standing.

Offered each semester

ART 4973 Senior Cinema Project I

Three hours

Original narrative or non-fiction film production demonstrating a proficiency in the fundamental and specialized areas of Digital Cinema including Concept, Script, Development, and Preproduction. Students work with professors and student peers to prepare for ART 4983. An additional fee associated with this course. Prerequisite: senior standing.

Offered each semester

ART 4983 Senior Cinema Project II

Three hours

Continuing the work of ART 4973. Original narrative or non-fiction film production demonstrating a proficiency in the fundamental and specialized areas of Digital Cinema including Principle Photography, Post-Production, Screening, and Film Festival submissions. An additional fee associated with this course. Prerequisite: [ART 4973](#).

Offered each semester

Accounting (ATG) Courses

ATG 1163 Accounting for Decision Making

Three hours

Survey of financial and managerial accounting for majors outside the College of Business. The focus is on understanding the meaning of numbers in financial statements, their relationship to each other, and how they are used in evaluating, decision making, planning, and control. ATG 1163 does not apply to the completion of ATG requirements for the Accounting major, the Accounting minor, or the Professional Accounting Development minor.

Offered spring semester

ATG 2173 Principles of Financial Accounting

Three hours

A study of accounting vocabulary and skill building in the applications of Generally Accepted Accounting Principles to areas such as the accounting cycle, financial statement preparation, cash and inventory control, fixed asset analysis, liabilities and stockholder's equity.

Offered fall semester

ATG 2183 Principles of Managerial Accounting

Three hours

Study of basic concepts of management accounting, planning and control, management decision making, just-in-time operating, activity-based-costing, and financial statement analysis. Prerequisite: [ATG 2173](#).

Offered spring semester

ATG 3103 Intermediate Accounting I

Three hours

An in-depth study of accounting concepts and procedures relating to assets. Prerequisite: [ATG 2183](#).

Offered fall semester

ATG 3113 Intermediate Accounting II

Three hours

Advanced topics in accounting including in-depth study of liabilities and equities, income determination, and financial reporting. Prerequisite: [ATG 3103](#).

Offered spring semester

ATG 3153 Federal Income Tax Basics

Three hours

Examines laws and procedures that apply to federal income taxation of individuals, partnerships, S-corporations, and C-corporations. Students develop skills in doing tax returns, written and oral tax arguments, and tax issue recognition. Prerequisite: [ATG 2183](#).

Offered fall semester (odd-numbered years)

ATG 3163 Advanced Federal Income Tax Topics

Three hours

Introduction to estate tax, gift tax, and generation-skipping tax. Study of tax issues relating to formation and dissolution of partnerships and corporations. Prerequisite: [ATG 2183](#) or consent of instructor.

Offered spring semester (even-numbered years)

ATG 3173 Cost Accounting

Three hours

Study of the cost cycle, job order costing, process costing, flexible budgeting, standard costs, direct costing, and non-manufacturing costs. Prerequisite: [ATG 2183](#).

Offered spring semester (odd-numbered years)

ATG 3183 Government and Not-for-Profit Accounting

Three hours

Accounting for governmental units and non-profit organizations. Includes all the new pronouncements and the special rules for hospitals and universities. Emphasis on accounting to help management succeed in accomplishing organizational objectives. Prerequisite: [ATG 2183](#).

Offered fall semester (even-numbered years)

ATG 3213 Managerial Information Systems

Three hours

A study of current information systems concepts including Web technology, online auditing issues, compliance, controls, and contemporary accounting issues. Specific topics include e-business, computer hardware and software, accounting cycles, systems development, computer crime, auditing, and expert systems. Prerequisite: [ATG 2173](#).

Offered spring semester (odd-numbered years)

ATG 3990 Accounting Internship

No credit

Supervised learning involving field experience in a business working with the area of accounting. Arrangements for taking the course must be made with the internship coordinator prior to the work being

completed. This course is required for all College of Business majors for graduation and is available only to those students who are majoring in a degree program of the College of Business. Prerequisite: [ATG 3113](#).

Offered each semester

ATG 4131, 4132, 4133 Selected Topics

One to three hours

A course offering students opportunities to study subjects of special interest. May be offered on a group basis in a classroom setting or as independent study under faculty supervision. Prerequisites: junior standing and consent of instructor.

Offered upon sufficient request

ATG 4153 Auditing and Attestation Services

Three hours

Study of auditing standards, professional conduct, legal liability of auditors, internal control, sampling, the nature of evidence, and auditing techniques necessary for an independent auditor to render an opinion on a company's financial statements. Prerequisites: [ATG 3103](#) and [BUS 2193](#).

Offered spring semester (even-numbered years)

ATG 4163 Advanced Accounting

Three hours

Advanced study of accounting concepts and procedures. Includes partnerships, branches, business combinations, consolidated financial statements, multinational enterprises, segments, interim reports, and SEC reporting. Prerequisite: [ATG 3113](#).

Offered fall semester (odd-numbered years)

Bible (BBL) Courses

BBL 1013 Old Testament Survey

Three hours

A brief introduction to the history and message of the Old Testament. A general survey of the overall content of each book and certain significant themes stressing relevance to Christian living.

Offered each semester

BBL 1023 New Testament Survey

Three hours

An introduction to the history and message of the New Testament. The class provides an academic overview of each book, its context and significant themes, with challenges and applications to Christian faith and discipleship.

Offered each semester

BBL 1083 Honors: Old Testament Survey

Three hours

A comprehensive introduction to the study of the Old Testament. The course introduces the student to the history and theology of the Old Testament, basic hermeneutical issues and book content, as well as relevant application to faith and life. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered fall semester

BBL 1093 Honors: New Testament Survey

Three hours

A comprehensive introduction to the history and message of the New Testament. The class provides an academic overview of the canonical history and reliability of the New Testament documents as well as the historical and cultural background, major themes, and issues for each book including the challenges and applications to Christian faith and discipleship. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered spring semester

BBL 1513 Biblical Language Tools I

Three hours

This course will train students to use the most valuable reference tools indexed in Koine Greek, without expecting that student will necessarily learn to read the language. These tools will include concordances and dictionaries indexed in Greek. Students will also learn enough grammar to follow the grammatical arguments made in technical commentaries based on the Greek text. They will also be exposed to enough text criticism to be able to explain the text critical footnotes that appear in many translations and to understand the text critical arguments in technical commentaries. They will not be expected to do textual criticism. Students who want to read the Greek New Testament should take [BBL 2513](#) and [2523](#). Prerequisite: consent of instructor.

Offered summer semester, upon sufficient request

BBL 1523 Biblical Language Tools II

Three hours

This course will build on BBL 1513 by applying all the resources and skills learned in that course to sustained passages of the Greek New Testament (and at the instructor's option, Greek translations of the Old Testament). Finally, Biblical Language Tools II will introduce the Hebrew Alphabet and identify for students the Hebrew tools similar to the Greek tools used in BBL 1513. Interested and ambitious students will then be able to cultivate these same skills with Hebrew resources on their own. Students who want to read the Greek New Testament should take [BBL 2513](#) and [2523](#). Prerequisites: [BBL 1513](#) and consent of instructor.

Offered summer semester, upon sufficient request

BBL 2513, 2523 Elementary New Testament Greek I, II

Each course, three hours

A study of elementary Greek grammar and basic vocabulary with practice in translation of sentences from Greek to English. BBL 2523 includes translation from the epistles of John from the Greek. Prerequisite for 2523: BBL 2513.

2513 offered fall semester (odd-numbered years)
2523 offered spring semester (even-numbered years)

BBL 3003 Evangelical Theology

Three hours

Evangelical Theology is a study of the essential doctrines of the Christian faith, including Scripture, the triune God, salvation, the Church, creation, and the eternal Kingdom. The unity of divine revelation and the contemporary applicability of the Scriptures are emphasized. By studying the method of theological formation, students should be able to discern primary and secondary theological concepts and apply them

properly to their personal lives as well as to their involvement in the Church and the world. Prerequisites: [BBL 1013](#) and [1023](#) or equivalents.

Offered each semester

BBL 3083, 4083 Honors: Integrated Theology I, II

Each course, three hours

A six-hour course sequence studying the development of Christian faith and practice from the early Christian centuries down to the present. The course will be historical, in that the faith and practice of the Christian tradition will be studied in specific cultural and historical contexts and will also be theological, tracing the development of ideas and how they play themselves out in the practice of Christian faith. In addition, the course will present a brief survey of Islamic faith and practice under the assumption that Christian faith and practice is best understood when it is seen in the light of competing alternatives. At critical points throughout the study, similarities and differences in how a specifically Christian approach to theology and practice will be discussed in light of the theology and practice of Islam. The focus of the course is on primary sources. Prerequisites for 3083: admission to the Honors Program or permission of the Honors Committee, junior standing, [EGL 1023](#), [HST 1013](#) and [1023](#) or [Honors counterparts](#), [BBL 1013](#), and [1023](#) or equivalents. Prerequisite for 4083: BBL 3083.

3083 offered fall semester (odd-numbered years)

4083 offered spring semester (even-numbered years)

BBL 3223 Communicating the Christian Message

Three hours

A foundational course to provide tools for preaching, speaking, and presenting the Christian message in a variety of contexts using various media. Includes an introduction to theory for creating and delivering different forms of communication, as well as practical ideas and tips for using various media. Prerequisite: [BBL 34 3](#) or [36 3](#).

Offered fall semester

BBL 3353 Theology of Worship

Three hours

A historical and theological investigation of the development of corporate worship emphasizing applicable Hebrew and Christian scripture. Liturgical history is examined, including the dynamics of music, sacred space, and symbols and icons from the Early Church to the contemporary emergent Church. Prerequisites: [BBL 1013](#) and [1023](#).

Offered fall semester (odd-numbered years)

BBL 3363, 3373 History of the Christian Church I, II

Each course, three hours

A historical and theoretical examination of the development of the church. The first course addresses the Early Church, Patristic, Byzantine, and Medieval periods; the sequence is completed by study of the Reformation, Enlightenment, and Modern periods. Prerequisite for 3373: BBL 3363.

3363 offered fall semester

3373 offered spring semester

BBL 34_3 New Testament Book Study

Each course, three hours

Critical study of a major book or portion of the New Testament. Students learn the principles of Biblical hermeneutics rooted in rigorous exegesis. Courses are offered on a rotating basis. Prerequisite: [BBL 1023](#).

3413 The Gospel of John. Exploration of John's Gospel in relationship to the synoptic Gospels and the emerging theology of the Early Church in its first-century cultural context within the Roman Empire.

3423 The Synoptic Gospels. Exploration of the Gospels of Matthew, Mark, and Luke. Using parallel format, the books are studied in relation to each other, to John's Gospel, and to the rest of the New Testament and Hebrew canon where appropriate. Special attention is paid to the synoptic authors, initial audiences, theological foci, and the historical and cultural background of the synoptics as well as the dynamics of the emerging church, and the social, economic, political, and religious contexts of the first-century Roman Empire.

3433 The Gospel of Luke and The Acts of the Apostles. An analysis of Luke and Acts. Emphases include the literary techniques, the historical setting, and the message of the books. Students are exposed to critical issues related to the authorship, sources, dating, and audience of these books.

3443 The Pauline Epistles. A study of the life of Paul with concerted analysis of one or more of his epistles. In addition to the man himself, special attention is paid to his initial audiences, theological foci, and the historical and cultural background of the letters, as well as the dynamics of the emerging Church, and the social, economic, political, and religious contexts of the first-century Roman Empire.

3453 The General Epistles. An incisive examination of one or more of the General Epistles. The selected section is compared to the rest of the New Testament and to the Hebrew canon where appropriate. Special attention paid to the author, initial audiences, theological foci, and the historical and cultural background of the text, as well as the dynamics of the emerging church, and the social, economic, political, and religious contexts of the first-century Roman Empire.

3463 The Book of Revelation. An in-depth analysis of the book of Revelation. Special emphasis is placed on major hermeneutical approaches to the book, as well as thorough study of its contents, original contexts, missional implications, and eschatological hope.

Offered each semester on a rotating basis

BBL 3513, 3523 Syntax of New Testament Greek I, II

Each course, three hours

A study of the structure of the Greek language accomplished by 1) reading sustained passages in Koine Greek and 2) understanding the syntactical functions which occur in them. Prerequisite for 3513: [BBL 2523](#) or equivalent. Prerequisite for 3523: BBL 3513 or equivalent.

3513 offered fall semester (even-numbered years)
3523 offered spring semester (odd-numbered years)

BBL 3583 Perspectives on the World Christian Movement

Three hours

A comprehensive 15-week course taught by outstanding teachers, expert speakers, missionaries, and Bible scholars, designed to illumine God's plan for reaching people throughout the world. As current and past methods are examined, students are given opportunity to consider their personal roles in His work. An

additional fee associated with this course. Meets the Global Studies requirement of the Core Curriculum.
Prerequisite: junior standing or consent of instructor.

Offered spring semester

BBL 36_3 Old Testament Book Study

Each course, three hours

A rigorous study of a major portion of the Old Testament with opportunity to learn and apply the principles of biblical hermeneutics. The courses are offered on a rotating basis. Prerequisite: [BBL 1013](#).

3613 The Pentateuch. An analysis of one or more books drawn from the first five books of the Old Testament. Issues related to the content, the literary presentation, the historical context, and the theological and practical use of these books are addressed. Students are exposed to critical issues in dating, authorship, and interpretation of the books.

3623 Historical Books of the Old Testament. An analysis of one or more books drawn from the Historical Books, Joshua through Esther. Issues related to the content, the literary presentation, the historical context, and the theological and practical use of these books are addressed. Students are exposed to critical issues in dating, authorship, and interpretation of the books.

3633 Old Testament Poetry and Wisdom. An analysis of one or more books drawn from those typically classified among the Poetic Books, or as Wisdom Literature. (At the instructor's discretion, books classified as "Writings" in the Hebrew Bible may be included.) Issues related to the content, the literary presentation, the historical context, and the theological and practical use of these books are addressed. Students are exposed to critical issues in dating, authorship, and interpretation of the books.

3663 Prophets. An analysis of one or more of the prophetic books of the Old Testament. Issues related to the content, the literary presentation, the historical context, and the theological and practical use of these books are addressed. Students are exposed to critical issues in dating, authorship, and interpretation of the books.

Offered each semester on a rotating basis

BBL 3713, 3723 Elementary Biblical Hebrew I, II

Each course, three hours

A study of elementary Biblical Hebrew grammar and basic vocabulary with some limited conversational drill. Prerequisite for 3723: BBL 3713.

Offered upon sufficient request

BBL 4002 Capstone Seminar in Christian Life

Two hours

A senior capstone course of the Core Curriculum designed to encourage critical and reflective thought about Christian formation. The Core Curriculum's role in the student's spiritual formation is considered and assessed. Prerequisites: [BBL 1013](#) and [1023](#) or equivalents, [BBL 3003](#), [EGL 1023](#), and junior standing or consent of instructor.

Offered each semester

BBL 4043 Capstone Seminar in Christian Formation: Ireland

Three hours

A writing-intensive course designed to encourage critical and reflective thought about Christian formation. The Core Curriculum's significant role in Christian formation is considered. Works of St. Patrick and C.S.

Lewis are presented as a basis for student reflection and as guides to Christian living. Students visit historical sites significant to each of these men and develop an understanding of their writings and contributions to the Christian faith. Visits to local churches give students opportunity to observe the present-day church in Ireland and to enjoy fellowship with Irish believers of various denominations. May substitute for [BBL 4002](#) in the Core Curriculum. Prerequisites: [BBL 1013](#) and [1023](#) or equivalents, [BBL 3003](#), and [EGL 1023](#).

Offered summer, [Irish Studies Program](#)

BBL 4433 Christian Apologetics

Three hours

An introduction to a major topic in the philosophy of religion, e.g., arguments for and against the existence of God, the problem of evil, or the relationship between God and morality. Students should be able to give an adequate defense of the Christian faith by the end of the semester. (Same as [RPH 4433](#).) Prerequisite or corequisite: [RPH 3003](#) or [POL 3003](#) or [RPH 3013](#).

Offered fall semester (odd-numbered years)

BBL 4453 Art and Archaeology of Jordan

Three hours

This course is an introduction to the art and archaeology of Jordan from the Neolithic period up to the present. A major component of this course will be participation in the archaeological excavation at Abila of the Decapolis in northern Jordan and travel to archaeological sites and museums in Jordan and other countries in the Middle East through John Brown University's Jordan Summer Studies Program. Meets The Arts requirement of the Core Curriculum.

Offered summer semester, [Jordan Summer Studies Program](#)

BBL 4473 Seminar in Biblical Studies

Three hours

An advanced study of a particular issue related to Biblical Studies. Potential topics include critical issues in a book of the Old or New Testament or a current trend in Biblical studies or hermeneutics. Course may be repeated when content differs. Prerequisite: junior standing or consent of instructor.

Offered spring semester (odd-numbered years)

BBL 4481, 4482, 4483 Selected Topics

One to three hours

Topics are chosen from some area of Biblical Studies (Old Testament, New Testament, Biblical History, or Theology). The course affords an opportunity for the student to do independent study and research under the supervision of the instructor. Prerequisite: junior standing or consent of instructor.

Offered upon sufficient request

BBL 4493 Seminar in Theological Studies

Three hours

A course designed to develop the student's ability to analyze and explain theological texts through research, discussion, and presentation of papers. A particular theologian, movement, or topic from the history of Christian theology typically serves as the focus of evaluation. May be repeated for credit when content differs. Prerequisites: [BBL 3003](#) and junior standing or consent of instructor.

Offered spring semester (even-numbered years)

BBL 4512 Greek Readings and Exegesis

Two hours

Readings from books of the Greek New Testament and/or selected readings from Jewish or early Christian texts in Greek. May be repeated for credit when content differs. Prerequisite: [BBL 3523](#) or equivalent.

Offered upon sufficient request

BBL 4581, 4582, 4583 Selected Topics in New Testament Greek

One to three hours

Topics chosen from some area of New Testament Greek. The student may also do independent study and research under the direction of the instructor. Prerequisite: [BBL 3523](#) or consent of instructor.

Offered upon sufficient request

BBL 4713, 4723 Syntax of Biblical Hebrew I, II

Each course, three hours

An intermediate level study of Hebrew grammar and syntax. Expanded vocabulary and translation from Hebrew to English and English to Hebrew are also emphasized. Prerequisite to BBL 4723: BBL 4713.

Offered upon sufficient request

Biology (BIO) Courses

BIO 1003 Biological Science

Three hours

An introductory survey of biology designed for liberal arts students seeking to fulfill the life science Core Curriculum requirement. Topics addressed include the nature of science, cellular processes, genetics, biotechnology, evolution, biodiversity, ecology, and the integration of the Christian faith and science. Laboratory experiences emphasize the scientific method and biological processes. Two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Meets the Life Science requirement of the Core Curriculum.

Offered each semester

BIO 1093 Honors: Biological Science

Three hours

This course is designed especially for liberal arts students admitted to the Honors Program who are seeking to fulfill the life science Core Curriculum requirement. The focus of this course is to study the fundamental principles of biology while also applying knowledge to an ever-expanding suite of issues through creative projects. There will also be an emphasis on the integration of faith and science, especially as it relates to the diversification of life. Lab and lecture are combined into two 2-hour class sessions per week. Meets the Life Science requirement of the Core Curriculum. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered spring semester

BIO 1124 Cell Biology

Four hours

This course is an introduction to the study of living systems, beginning with the molecules of life and progressing to the cellular level of organization. Students are exposed to numerous topics including the nature of science, experimental design and inquiry, biochemistry, cell structure, energy processing, genetics, molecular biology, and the integration of the Christian faith and science. Laboratory exercises reinforce concepts and biological processes discussed in the lecture. This course is particularly designed for students majoring in Biology, Biochemistry, Nursing, or Kinesiology. Three hours lecture-discussion and one two-hour laboratory per week. Meets the Life Science requirement of the Core Curriculum.

Offered each semester

BIO 1144 Plant and Animal Diversity

Four hours

An introduction to the study of the plant and animal kingdoms, emphasizing adaptive aspects of anatomy, physiology, classification and relationships within plants and animals. Major taxa in each kingdom will be emphasized. Three hours lecture-discussion and one two-hour laboratory per week.

Offered fall semester

BIO 2174 Genetics

Four hours

A study of basic concepts in transmission genetics and population genetics with an introduction to molecular genetics. Laboratory exercises illustrate principles of inheritance in selected model organisms. Two hours lecture-discussions and 2 two-hour laboratories per week. An additional fee associated with this course. Prerequisite: [BIO 1124](#).

Offered spring semester

BIO 2184 Ecology and Evolution

Four hours

A study of the principles of ecology and evolution with an emphasis on the interrelationships between organisms and their biotic and abiotic environments. The concepts and theoretical basis of evolution will be examined, including the processes that drive natural selection, population dynamics, and mechanisms of genetic variation. Three hours lecture-discussion and one two-hour laboratory per week. Prerequisite: [BIO 1144](#) or consent of instructor.

Offered fall semester

BIO 2334 Fundamentals of Microbiology

Four hours

An introduction to the principles of microbiology with an emphasis on microorganisms that are important for health and disease in humans. Topics will include structure, function, metabolism, pathology, epidemiology, and diagnostic procedures for identification. Methods for prevention and control of microbial disease will be covered along with a basic understanding of the immune system. This course will not fulfill requirements for the Biology major or minor. Three hours lecture/discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisite: [BIO 1124](#).

Offered spring semester

BIO 2514 Anatomy and Physiology I

Four hours

This is the first of a two-semester sequence studying the anatomy and physiology of human systems. Topics of study include the structure and function of tissues, the integumentary, skeletal, muscular, nervous, and endocrine systems. The laboratory component includes microscopic studies, dissection, the use of models, and the study of physiological processes via experimentation. Three hours lecture-discussion and 1 two-hour laboratory per week. This course will not fulfill requirements for the Biology major or minor. An additional fee associated with this course. Prerequisite or corequisite: [BIO 1124](#).

Offered fall semester

BIO 2524 Anatomy and Physiology II

Four hours

This is the second of a two-semester sequence studying the anatomy and physiology of human systems. Topics of study include the structure and function of the cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems. The laboratory component includes microscopic studies, dissection, the use of models, and the study of physiological processes via experimentation. Three hours lecture-discussion and one two-hour laboratory per week. This course will not fulfill requirements for the Biology major or minor. An additional fee associated with this course. Prerequisite: [BIO 2514](#).

Offered spring semester

BIO 3101 Biology Teaching Practicum

One hour

Practical experience in lab preparation and instruction. Three hours per week. May be repeated once for credit. Prerequisites: junior standing and consent of instructor.

Offered upon sufficient request

BIO 3144 Marine Biology

Four hours

A study of the biological, chemical, and physical processes that promote and maintain marine life, establishing links between marine systems, biological processes, and human activity. The laboratory portion of the course consists of an intensive spring-break study trip to the Florida Keys. An additional fee associated with this course. Prerequisite: [BIO 1144](#) or consent of instructor.

Offered spring semester (even-number years)

BIO 3174 Molecular Cell Biology

Four hours

An advanced study of structure-function relationships in eukaryotic cells. Emphasis on cell membranes, organelles, protein targeting, secretory pathway, bioenergetics, cytoskeleton, and cell motility. Regulation of the cell cycle, cell signaling, and recognition/adhesion are also examined, particularly as they relate to malignancy. Labs focus on experimental studies of cellular structure and function using techniques of modern cell and molecular biology. Three hours lecture-discussion and one three-hour laboratory per week. An additional fee associated with this course. Prerequisites: [BIO 1124](#) and [CHM 1134](#).

Offered fall semester

BIO 3201 Cadaver Dissection

One hour

A practical study designed for transfer students who have successfully completed a college-level anatomy course that lacked cadaver dissection. An additional fee associated with this course. Offered concurrently with the [BIO 3514](#) laboratory.

Offered fall semester

BIO 3302 Field Experience

Two hours

Job shadowing experience in a science- or health-related profession as approved by the Biology Department. A journal and/or paper is required. Prerequisites: junior standing and approval of major advisor.

Offered each semester

BIO 3314 Molecular Genetics

Four hours

A study of the molecules involved in heredity with an emphasis on regulatory processes. Topics include: DNA/RNA structure and topology, genome organization, chromatin structure, epigenetic modifications, mutations, DNA replication and repair, recombination, transcription, RNA processing, and protein translation. Genomic applications to modern medicine and studies of evolution are also explored. Lab experiments utilize several methods of recombinant DNA technology and bioinformatic analyses. Three hours lecture-discussion and one three-hour laboratory per week. An additional fee associated with this course. (Same as [CHM 3174](#).) Prerequisite: [BIO 2174](#) or [CHM 3164](#).

Offered spring semester (odd-numbered years)

BIO 3334 Microbiology

Four hours

A study of the structure, function, control, physiology, and classification of prokaryotes and viruses. Two hours lecture and 2 two-hour laboratories per week. An additional fee associated with this course. Prerequisites: [BIO 1124](#), and [CHM 1124](#) or [CHM 1014](#).

Offered spring semester

BIO 3514 Human Anatomy

Four hours

Description and discussion of basic tissues, organs, and organ systems of the human. The laboratory is a concentrated study of histology and gross human anatomic structure. Analysis of prepared slides, skeletal structures, and cadaver dissection are included. Three hours lecture-discussion and one three-hour laboratory per week. An additional fee associated with this course. Prerequisite: [BIO 1124](#).

Offered fall semester

BIO 3524 Human Physiology

Four hours

A detailed study of the basic human physiology, including muscle, neural, cardiovascular, respiratory, urinary, digestive, endocrine, and reproductive systems. Laboratories include surgical procedures and experimental manipulations of live non-human vertebrate specimens to observe and record various physiological functions. Three hours lecture-discussion and one three-hour laboratory per week. An

additional fee associated with this course. Prerequisites: [BIO 1124](#), and [CHM 1124](#) or [CHM 1014](#); [BIO 3514](#) recommended.

Offered spring semester

BIO 3614 Virology

Four hours

A study of the structure, classification, life cycle, and pathogenesis of viruses, and the immune response to virus infections of host organisms. Human viruses will be emphasized in the lecture. Viruses will be studied as pathogens and as tools for biomedicine and biological discovery. Labs focus on methods and experimental approaches for virus detection, isolation, and purification using modern techniques of biochemistry, cell, and molecular biology. Three hours lecture-discussion and one three-hour laboratory per week. An additional fee associated with this course. Prerequisites: [BIO 1124](#) and [CHM 1134](#).

Offered fall semester (even-numbered years)

BIO 4103 Bioethics

Three hours

A comparison of secular and Christian approaches to biomedical, environmental, and research ethics. Utilizes a highly interactive format to examine contemporary issues related to the beginning and end of human life, stem cells, cloning, genetic testing and manipulation, distribution of health care, experimentation on animal and human subjects, and care of the environment. Three hours of lecture-discussion per week. Prerequisite: junior standing or consent of instructor.

Offered spring semester (even-numbered years)

BIO 4121, 4122, 4123, 4124 Selected Topics in Biology

One to four hours

Topics are chosen from areas of life science such as anatomy, biotechnology, cell biology, developmental biology, ecology, genetics, histology, marine biology, microscopy, molecular biology, and physiology. May be repeated for credit when content differs. An additional fee may be associated with BIO 4124. Prerequisites: junior standing and consent of instructor.

Offered fall semester (odd-numbered years)

BIO 4221, 4222, 4223 Biological Research

One to three hours

Field- and/or laboratory-based research projects in an area of biology of interest to the student and supervising faculty. May be repeated for credit for up to the maximum number of research hours allowed for majors in Biology or Biochemistry. An additional fee associated with each course. Prerequisite: consent of instructor.

Offered each semester

BIO 4501 Biology Capstone

One hour

Structured review of key concepts in multiple disciplines of biology to foster the development of cross-connections between these disciplines while aiding students in preparing for the standardized achievement test required for completion of the Biology major. One hour lecture-discussion per week. Prerequisites: senior standing and completion of, or current enrollment in, all (or most) biology courses specified by the department for the Biology major.

Offered spring semester

Business (BUS) Courses

BUS 1003 Business Foundations

Three hours

This course is an introduction to business and the private enterprise system from the perspective of the Christian world view. The purpose of this course is to provide foundational skills in areas that are critical for further studies in business, leading to a successful career launch.

Offered each semester

BUS 1123 Business Communication

Three hours

Development of professional communication skills, both written and oral, in business. Includes mechanics, techniques, and psychological principles of effective business communications with emphasis on contemporary communication technologies. Prerequisite: [EGL 1013](#).

Offered each semester

BUS 2163 Business Mathematics

Three hours

A study of mathematical tools and models used in business. Topics include time value, optimization, forecasting, and other common quantitative models. Prerequisite: [MTH 1113](#) or consent of instructor.

Offered fall semester

BUS 2193 Business Statistics

Three hours

A study of statistical theory as it applies in business settings. Topics include probability, distributions, descriptive statistics, estimation, hypothesis testing, regression and correlation, non-parametric methods, ANOVA, and statistical quality control. Meets the Mathematics requirement of the Core Curriculum. Prerequisite: [MTH 1113](#) or consent of instructor.

Offered spring semester

BUS 3113 Spreadsheet Analytics

Three hours

Practice in using Microsoft Excel for various business applications. Emphasis will be placed on creating schedules, producing reports using pivot tables and graphs, and generating and updating macros through basic Visual Basic coding. Prerequisites for Business majors: [ATG 2173](#) and [BUS 2193](#). Prerequisites for non-Business majors: [ATG 1163](#) and [BUS 2193](#).

Offered each semester

BUS 3990 Internship

No credit

Supervised learning involving field experience in a business environment. Arrangements for taking the course must be made with the internship coordinator prior to the work being completed. This course is required for all College of Business majors for graduation and is available only to those students who are majoring in a degree program of the College of Business. Prerequisite: junior standing or consent of internship coordinator and advisor.

Offered each semester

BUS 4131, 4132, 4133 Selected Topics

One to three hours

A course offering students opportunities to study subjects of special interest. May be offered on a group basis in a classroom setting or as independent study under faculty supervision. Prerequisites: junior standing and consent of instructor.

Offered upon sufficient request

BUS 4253 Business Law and Ethics

Three hours

Basic legal principles that govern modern business transactions. Topics include contracts, real and personal property, agencies, employment, business formation, and Uniform Commercial Code. Emphasis on organizational ethics and compliance. Prerequisite: junior standing.

Offered fall semester

BUS 4173 Business Finance

Three hours

Study of decision-making techniques involving working capital management, capital budgeting, long-term financing, and dividend policy. Prerequisites: [ATG 2183](#), [BUS 2163](#), and [ECN 2123](#).

Offered fall semester

BUS 4993 Strategic Management

Three hours

An integrative study of business strategy and policy involving the creation and presentation of a formal business plan. This is a capstone course open only to seniors in the Department of Business and should be taken during the student's final fall semester at the university. All traditional undergraduate business students are required to take the on-ground Strategic Management course. An additional fee associated with this course. Prerequisite: senior standing or consent of instructor.

Offered fall semester

Chemistry (CHM) Courses

CHM 1014 Fundamentals of Chemistry

Four hours

An introduction to the field of chemistry. Designed to provide students with an understanding of basic chemical principles and their application to relevant problems, course work is suitable for students in Construction Management, Nursing, and the liberal arts. Three hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Meets the Physical Science requirement of the Core Curriculum. Prerequisite or corequisite: minimum ACT math score of 24, or SAT math score of at least 580, or [MTH 1113](#).

Offered spring semester

CHM 1101, 3101 Chemistry Practicum

Each course, one hour

Experiences in chemistry, such as the following: chemical demonstration, chemical hygiene training, analysis, and teaching. An additional fee may be associated with each course. Prerequisite: consent of instructor.

Offered upon sufficient request

CHM 1124 General Chemistry I

Four hours

A systematic study of basic chemical principles and properties that govern matter and its changes. Topics include the basic structure of atoms and molecules, chemical and physical properties, balancing chemical equations, and bonds. Three hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Meets the Physical Science requirement of the Core Curriculum.

Prerequisite: minimum ACT math score of 24, or SAT math score of at least 580, or [MTH 1113](#).

Offered fall semester

CHM 1134 General Chemistry II

Four hours

Topics include thermodynamics, kinetics, and chemical reactions; properties of gases, solids, and liquids; aqueous equilibria and an introduction to electrochemistry and transition metal elements. Three hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course.

Prerequisite: [CHM 1124](#).

Offered spring semester

CHM 2151 Seminar: Nanotechnology

One hour

An introduction to nanotechnology and its applications in various fields such as chemistry, materials science, medicine, and electronics. Discussion of both the scientific and ethical ramifications of nanotechnology using a series of readings. Prerequisite: [CHM 1014](#) or [1124](#).

Offered fall semester (even-numbered years)

CHM 2154 General, Organic, and Biochemistry

Four hours

A combined study of General Chemistry, Organic Chemistry, and Biochemistry. Topics include general chemical reactions, the chemistry and nomenclature of the hydrocarbons, and the chemistry of carbohydrates, lipids, and proteins. Three hours lecture-discussion and one two-hour laboratory-quiz period per week. An additional fee associated with this course. Prerequisite: minimum ACT math score of 24, or SAT math score of at least 580, or prerequisite or corequisite: [MTH 1113](#).

Offered spring semester

CHM 3114 Advanced Analytical Chemistry

Four hours

A laboratory intensive course that encompasses both quantitative and instrumental methods of analysis. Topics include chemical equilibrium, wet chemical methods of analysis, and various types of spectroscopic and chromatographic techniques. Emphasis on reading and utilizing current scientific literature. An additional fee associated with this course. Prerequisite: [CHM 1134](#).

Offered fall semester (even-numbered years)

CHM 3134, 3144 Organic Chemistry I, II

Each course, four hours

A systematic study of the hydrocarbons and their derivatives, general organic reactions, and theories of reaction mechanics. The laboratory work gives training in the preparation and properties of type compounds. Three hours lecture-discussion-quiz and three hours laboratory per week. An additional fee

associated with each course. Prerequisite for 3134: [CHM 1134](#) or consent of instructor; for 3144: CHM 3134.

3134 offered fall semester
3144 offered spring semester

CHM 3151, 3152, 3153, 3154 Selected Topics

One to four hours

Topics are chosen from the various branches of chemistry. May be repeated for credit when content differs. An additional fee may be associated with CHM 3154. Prerequisite: consent of instructor.

Offered upon sufficient request

CHM 3164 Biochemistry I

Four hours

A study of macromolecular and metabolic biochemistry with an emphasis on carbohydrates, lipids, and proteins with an introduction to nucleic acids. The chemical basis for biological phenomena, bioenergetics and metabolic regulation is stressed. Three hours lecture-discussion and one three-hour laboratory-quiz period per week. An additional fee associated with this course. Prerequisite: [BIO 1124](#) and [CHM 3144](#) or consent of instructor.

Offered fall semester (even-numbered years)

CHM 3174 Biochemistry II

Four hours

A study of the molecules involved in heredity with an emphasis on regulatory processes. Topics include: DNA/RNA structure and topology, genome organization, chromatin structure, epigenetic modifications, mutations, DNA replication and repair, recombination, transcription, RNA processing, and protein translation. Genomic applications to modern medicine and studies of evolution are also explored. Lab experiments utilize several methods of recombinant DNA technology and bioinformatic analyses. Three hours lecture-discussion and one three-hour laboratory per week. An additional fee associated with this course. (Same as [BIO 3314](#).) Prerequisite: [CHM 3164](#) or [BIO 2174](#).

Offered spring semester (odd-numbered years)

CHM 3183 Advanced Inorganic Chemistry

Three hours

Coverage of the bonding and properties of the main group and transition metal elements with a focus on their coordination and solid-state chemistry. Molecular symmetry principles, spectroscopy, and catalytic applications of these substances are discussed. Prerequisite: [CHM 1134](#) or consent of instructor.

Offered fall semester (odd-numbered years)

CHM 4124 Physical Chemistry - Thermodynamics

Four hours

A study of the principles of Physical Chemistry. Topics include behavior of matter in the various states, chemical kinetics, molecular and atomic structure, and thermodynamics. An additional fee associated with this course. Prerequisites: [CHM 3144](#), [3183](#), and [PHY 2124](#). Prerequisite or corequisite: [MTH 1144](#).

Offered spring semester (even-numbered years)

CHM 4134 Physical Chemistry - Quantum

Four hours

A study of the principles of Physical Chemistry. Topics include molecular and atomic structure, quantum mechanics, and atomic and molecular spectroscopy. An additional fee associated with this course.

Prerequisites: [CHM 3114](#), [3144](#), and [PHY 2124](#). Prerequisite or corequisite: [MTH 1144](#).

Offered spring semester (odd-numbered years)

CHM 4221, 4222, 4223 Chemistry Research

One to three hours

Laboratory-based research projects in an area of Chemistry or Biochemistry of interest to the student and supervising faculty. May be repeated for credit, with a maximum of four hours counting toward degree credit in Biochemistry. An additional fee associated with this course. Prerequisite: consent of instructor.

Offered each semester

CHM 4501 Chemistry/Biochemistry Capstone

One hour

Provides opportunity for graduating students to integrate the multiple chemical and biochemical concepts and to assess the Chemistry engaged learning program, CH3. Involves structured review of key concepts in multiple disciplines of chemistry and biochemistry prior to taking a standardized achievement test required for completion of each respective major. One hour lecture-discussion per week. Prerequisites: senior standing and completion of, or current enrollment in, all (or most) chemistry courses specified by the department for the Chemistry or Biochemistry major.

Offered spring semester

Construction Management (CM) Courses

CM 1112 Construction Techniques I

Two hours

Instruction in and application of basic construction techniques by involvement in an actual construction project. One hour lecture-discussion and three hours laboratory period per week. An additional fee associated with this course.

Offered fall semester

CM 1122 Construction Techniques II

Two hours

Instruction in and application of basic construction techniques by involvement in an actual construction project. Basic instruction in arc welding is included. One hour lecture-discussion and three hours laboratory period per week. An additional fee associated with this course.

Offered spring semester

CM 1223 Graphic Communication Skills

Three hours

The study and practice of communicating ideas through manual and digital means. Emphases include the development of lettering and sketch abilities, communication through construction documents, an

introduction to construction assemblies and an overview of three-dimensional model based design, and construction documentation. Two three-hour laboratory periods per week. An additional fee associated with this course.

Offered spring semester

CM 1313 Materials of Construction

Three hours

A comprehensive study of the properties, manufacture, and uses of building construction materials. Investigation into the appropriate application of materials for design and functional intent is addressed. Three hours lecture-discussion per week.

Offered fall semester

CM 2213 Construction Methods I

Three hours

A study of the assemblies, methods, sequences, and equipment used in constructing residential projects. The use of the International Residential Code and local jurisdiction ordinances and their effect on both the site and building construction is included. Two hours lecture-discussion and one two-hour laboratory period per week.

Offered fall semester

CM 2223 Construction Methods II

Three hours

A study of the assemblies, methods, sequences, and equipment used in commercial construction projects. An emphasis on the planning and managing of the commercial construction process is included. Two hours lecture-discussion and one two-hour laboratory period per week. An additional fee associated with this course.

Offered spring semester

CM 2322 Statics and Strength for Technology

Two hours

A study of forces on statically determinate rigid bodies at rest including analysis of determinate trusses. An introduction to stress and strain in beams and columns is included. Two hours lecture-discussion per week. An additional fee associated with this course. Prerequisite: [MTH 1122](#) or equivalent.

Offered fall semester

CM 2431 Construction Internship A

One hour

Orientation to work on a construction site. The student is responsible to secure summer employment in construction with assistance from the instructor. Taken prior to CM 2441.

Offered spring semester

CM 2441 Construction Internship B

One hour

Ten weeks (a minimum of 400 hours) of construction work with prior approval of the major advisor. A written report of activities is required. Credit or equivalence for this course can be earned during the summer months. Prerequisite: [CM 2431](#).

Offered fall semester

CM 2451 International Construction Internship B

One hour

Ten weeks (a minimum of 400 hours) of work on an international construction project with prior approval of the major advisor. A written report of activities is required. Credit or equivalence for this course can be earned during the summer months. Prerequisite: [CM 2431](#).

Offered summer

CM 2513 Surveying

Three hours

A study of the fundamentals of measuring techniques as they relate to leveling, construction layout, and mapping. Emphasis is given to the care and use of optical and electronic instruments. Two hours lecture-discussion and one two-hour laboratory period per week. An additional fee associated with this course. Prerequisite: [MTH 1122](#) or equivalent.

Offered fall semester

CM 3213 Construction Safety and Quality

Three hours

A study of safety and quality control as it relates to construction management. An emphasis on the financial impact of safety and quality management is included. Also included is instruction adequate to earn the ten-hour Occupational Safety and Health Administration (OSHA) Certificate. Three hours lecture-discussion per week. An additional fee associated with this course. Prerequisite: [CM 2213](#) or [2223](#).

Offered fall semester

CM 3233 Structural Systems for Buildings

Three hours

A study of the design of steel structural elements typically found in buildings and a consideration of steel erection procedures. Also the study of the design and control of concrete mixtures and of the design of simple reinforced concrete structural elements. Concrete Field Testing Certification instruction included. Two hours lecture-discussion and one two-hour laboratory period per week. An additional fee associated with this course. Prerequisite: [CM 2322](#) or [ME 3313](#).

Offered spring semester

CM 3413 Estimating I

Three hours

An introduction to construction estimating and bid preparation with an emphasis on quantity takeoff. Residential and light commercial projects are emphasized with integration of construction accounting. Two hours lecture-discussion and one two-hour laboratory period per week. An additional fee associated with this course. Prerequisite: [CM 2213](#) or [2223](#).

Offered fall semester

CM 3501, 3502, 3503 Selected Topics

One to three hours

Study of a specific area of the construction industry, such as work methods or equipment selection. May be used for independent study. May be repeated for credit when content differs. Prerequisite: consent of department head.

Offered upon sufficient request

CM 3603 Mechanical/Electrical Systems for Buildings

Three hours

A study of mechanical, electrical, and plumbing systems of residential and commercial buildings. An introduction to mechanical, electrical and plumbing codes, and design software are included. Energy conservation issues and the environmental impact of construction are discussed. Two hours lecture-discussion and one two-hour laboratory per week.

Offered spring semester

CM 3613 Architectural Design I

Three hours

The design, development, and presentation of an architectural program for a residence. Introduction to design principles and their influence in the development of a project is addressed. The architect, contractor and owner working relationships are emphasized. Two three-hour laboratory periods per week. An additional fee associated with this course. Prerequisites: [CM 1223](#) and junior standing, or consent of instructor.

Offered fall semester

CM 3623 Architectural Design II

Three hours

An introduction to commercial design principles combined with principles of Building Information Modeling (BIM). The course will include an exercise in commercial design presentation and an introduction to BIM software and theory. An additional fee associated with this course. Prerequisites: [CM 3613](#) and junior standing, or consent of instructor.

Offered spring semester

CM 4323 Construction Contracting

Three hours

A study of the management aspects of the construction industry including firm organization, roles and responsibilities, contracts, specifications, bonding and insurance, labor relations, and labor law. Ethical issues relevant to construction are discussed. Three hours lecture-discussion per week. Prerequisite: senior standing or consent of instructor.

Offered spring semester

CM 4423 Estimating II

Three hours

A detailed study and application of pricing, subcontract evaluation, and bidding techniques using blueprints and specifications. Projects include several commercial building projects. An introduction to construction financing is included. Two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisites: [CM 2223](#), [3413](#), and senior standing or consent of instructor.

Offered spring semester

CM 4613 Construction Project Planning and Scheduling

Three hours

A study of construction project management systems with emphasis on project planning and scheduling. Critical path schedules are developed using Primavera and Microsoft software. Two hours lecture-discussion and one two-hour laboratory per week. Prerequisite: senior standing or consent of instructor.

Offered fall semester

CM 4713 Construction Management I

Three hours

A capstone experience involving application of management techniques on an actual construction project. Planning, estimating, procurement, project execution, supervision of CM 1112 students, and coordinating subcontractors is included. One 1-hour planning session and two four-hour laboratories per week.

Prerequisite: senior standing.

Offered fall semester

CM 4723 Construction Management II

Three hours

A capstone experience involving application of management techniques on an actual construction project. Planning, estimating, procurement, project execution, supervision of CM 1122 students, and coordinating subcontractors is included. One 1-hour planning session and two four-hour laboratories per week.

Prerequisite: senior standing.

Offered spring semester

Christian Ministry (CMN) Courses

CMN 1213 Christian Leadership and Service

Three hours

This course introduces God's Kingdom concerns and the students' role in His plan (Kingdom) by studying the biblical concepts of leadership and cultural engagement. Students will also evaluate how God might be calling them to serve and integrate their faith with their vocation.

Offered each semester

CMN 2133 Developing Relational Ministry

Three hours

A look at how race, gender, personality, sexuality, family of origin, etc. affect who we are. Special care will be given to how we relate with the Triune God and others in a way that appreciates God's uniqueness in all of us. Prerequisite: [CMN 1213](#).

Offered fall semester

CMN 2223 Challenge Course Programs and Management

Three hours

Historical, theoretical, and experiential understanding of program and management practices associated with the use of adventure initiatives and challenge courses as an educational medium with a variety of populations. Introduction to technical skill development, facilitation strategies, processing techniques, safety procedures, equipment management, program design, evaluation methods, and applications to specific client groups. Use of challenge course programs for ministry in camp and adventure settings is emphasized. An additional fee associated with this course. Prerequisite: [CMN 4471](#) or consent of instructor.

Offered spring semester (odd-numbered years)

CMN 2263 Discipleship and Evangelism

Three hours

A consideration of the biblical and practical application of discipleship and evangelism. The social, cultural, community, and ontological ramifications of discipleship and evangelism are considered, as well

as a critique of current issues, worldview, and the needs of the 21st-century world. Prerequisites: [BBL 1013](#) and [1023](#).

Offered each semester

CMN 2283 Outdoor Recreation Skills

Three hours

Advanced training in skills essential for an effective camp/recreation career. Students are exposed to outdoor recreational activities, such as riflery, archery, low and high ropes course, backpacking, hiking, swimming, canoeing, and horseback riding. An additional fee associated with this course.

Offered upon sufficient request

CMN 2373 Principles and Practices of Experiential Education

Three hours

Theories and principles of leadership and experiential education (e.g. transfer of learning, small group development, debriefing/processing, providing appropriate feedback, therapeutic approaches, framing experiences) are applied to program development and implementation for Christian outdoor ministry settings, with special consideration of both traditional and specific populations (e.g. youth-at-risk, chemical dependency, businesses, university orientation programs). Opportunities to develop, lead, and evaluate adventure education experiences are incorporated. Field trip required.

Offered fall semester (even-numbered years)

CMN 2383 Outdoor Living Skills

Three hours

Introduction to basic living skills in wilderness environments. Topics include low-impact camping, food rations planning, clothing, travel techniques, equipment, and navigation. Leave No Trace Certification may be earned. Field trips required. An additional fee associated with this course.

Offered fall semester (odd-numbered years)

CMN 2463 Adolescent Culture

Three hours

An examination of adolescence from a holistic developmental perspective, studying intellectual, emotional, social, vocational, psychological, and spiritual growth. Students are given opportunity to analyze and interpret American youth culture for the purpose of understanding and ministering to adolescents. Students gain insight into recognizing, evaluating, and counteracting the effects of culture upon youth's self perception, world view, and understanding of God. Prerequisite: [PSY 1013](#) or [CMN 1213](#).

Offered spring semester (even-numbered years)

CMN 3153 Philosophy and Methods of Outdoor Education

Three hours

An examination of effective teaching techniques and administrative programming practices for outdoor experiential education. This course emphasizes development and selection of curriculum and activities appropriate for use in extending the academic classroom to the outdoors. Content is also designed to prepare prospective outdoor education professionals to teach about the outdoor environment in non-formal educational settings. Opportunities to develop, lead, and evaluate outdoor education experience are incorporated.

Offered fall semester (odd-numbered years)

CMN 3213 Camp Leadership and Management

Three hours

An introduction to the philosophy of Christian camping and its place in the spiritual, emotional, and educational development of the person. Attention is given to administration and organization of camp life from counselor training to food purchasing. A local camp, New Life Ranch, hosts the course and serves as a model for observation and learning.

Offered spring semester (even-numbered years)

CMN 3273 Critical Concerns with Children

Three hours

An examination of critical issues facing child advocates, social and ministry workers, educators, and counselors, both globally (children with HIV/AIDS, child laborers, child soldiers, sexually exploited children) and domestically (inner city children, children of divorce, child abuse, and children with special needs such as autism). Theologically, this course focuses especially on justice and mercy issues related to children and God's heart for the fatherless, the orphans, and the powerless.

Offered fall semester (odd-numbered years)

CMN 3313 Foundations and Practice of Youth Ministry

Three hours

A study of the basic principles of effective youth ministry. The class focuses on formulating theological, theoretical, and practical models for doing youth ministry, whether in a local church or para-church settings.

Offered spring semester (odd-numbered years)

CMN 3413 Christian Formation

Three hours

Exploration of sanctification and how to use various tools like counseling, small groups, spiritual disciplines, experiential education, Bible studies, mission trips, etc. to empower progressive Christ-like development. Prerequisite: [CMN 2263](#).

Offered each semester

CMN 4113 Wilderness First Responder

Three hours

Standards of practice for outdoor professionals providing emergency medical care in remote areas. Consideration of prolonged transport times, severe environments, and the use of portable and improvised equipment. Topics include wilderness trauma and illness, search and rescue operations, and environmental emergencies. Upon successful completion of practical and written exams students will receive a two-year Wilderness First Responder certificate from Wilderness Medicine Institute of National Outdoor Leadership Schools (NOLS) and a two year American Heart Association Adult Heartsaver CPR Certification. An additional fee associated with this course.

Offered summer, upon sufficient request

CMN 4431 Introduction to Capstone in Christian Ministry

One hour

This course introduces the student to the fundamentals of research for their Capstone project. Course work includes development of a topic and research methodology.

Offered fall semester

CMN 4433 Capstone in Christian Ministry

Three hours

A capstone course in ministry in which students strive 1) to integrate their previous academic and internship experiences; 2) to complete a professional portfolio of their education, experiences, and work-samples; and 3) to demonstrate competence in their discipline—how to assess needs, find answers, and provide help, information, or advice appropriately; to continue personal and professional growth; to refine their knowledge base; and to increase capacity for personal reflection. An additional fee associated with this course. Prerequisite: completion of one semester of internship.

Offered spring semester

CMN 4443 Critical Concerns with Adolescents

Three hours

An examination of some of the critical issues facing counselors, youth leaders, social workers, and educators by means of journal reviews, interviews, and computer searches. Students research topics such as teenage suicide, substance abuse, pregnancy and abortion, gangs, sexual/physical abuse, and divorce. (Same as [FAM 4443](#).)

Offered each semester

CMN 4471 Challenge Course Instructor 1

One hour

This course will provide Level 1 Challenge Course Instructor Certification.

Offered each semester

CMN 4481, 4482, 4483 Selected Topics

One to three hours

Topics are chosen from some areas of Christian Ministries. The student may also do an independent study and research under the supervision of the instructor. An additional fee may be associated with some OLM certifications. Prerequisite: consent of instructor.

Offered upon sufficient request

CMN 4491 Challenge Course Instructor 2

One hour

This course will provide Level 2 Challenge Course Instructor Certification.

Offered each semester

CMN 4493 Ministering to Families across the Life Span

Three hours

This course addresses psychosocial development, faith development, and other developmental issues of emerging adulthood, young adulthood, middle adulthood, and older adulthood. The course also addresses the significance of generational identities (e.g. silent generation, boomers, and millennials), the importance of cross-generational ties, and the key role of forgiveness in adult and family relationships. A special emphasis on the difficult transitions of young adulthood as well as a unit on grief, death, and dying are included.

Offered spring semester

CMN 4511, 4512, 4513 Independent Study in Christian Ministry

One to three hours

Supervised exploration of topics of special interest. The course consists of large assignments of reading, regular consultation with the supervising professor, and written analysis of readings. Prerequisites: 15 hours of Christian Ministries and consent of the Christian Ministries Department.

Offered upon sufficient request

CMN 4611, 4612, 4613, 4614 Internship in Christian Ministry

One to four hours

Participation in an approved and supervised local or international ministry activity. Credit is available only to majors and minors within the Division of Biblical Studies. Credit for the international ministry activity must meet the Global Studies Elective requirement in the Core Curriculum, with instructor approval. May be repeated for credit as needed to fulfill necessary requirements. Grading: 'S' or 'U'.

Offered each semester

Counseling (CNL) Courses

Descriptions of the following courses offered for the Counseling concentration in the Psychology major can be viewed in the Graduate Studies catalog by clicking on this link:

<http://www.jbu.edu/catalog/grad/current/cnl/>.

- CNL 7113 Principles of Family Therapy**
- CNL 7133 Theories and Techniques of Counseling**
- CNL 7353 Introduction to Play Therapy**
- CNL 7624 Family of Origin**
- CNL 7623 Family Systems**
- CNL 8073 Diagnosis and Case Management**

Communication (COM) Courses

COM 1101 Beginning Radio Practicum

One hour

Participation in supervised entry-level radio experiences. Introduction to typical station policies, methods of operation, and Federal Communication Commission (FCC) regulations.

Offered each semester

COM 1131 Beginning Media Production Performance Practicum

One hour

Five hours weekly in performance for radio, television, and other electronic media productions.

Offered spring semester

COM 1153 Introduction to Video and Audio Production

Three hours

An introduction to the principles, procedures, and techniques of video and audio production. The course covers the fundamentals of producing, scripting, directing, and editing video and audio. Students gain

proficiency in the operation of video switchers, cameras, sound recording, and computer-based equipment while gaining studio and field production experience as well. An additional fee associated with this course.

Offered fall semester

COM 1173 Faith, Media, and Calling

Three hours

This course challenges students to examine their faith and vocational callings in light of the role mass media play in society and culture. Considers Christianity within the context of media history, as well as contemporary media, and the many intersections between media and the gospel, including media uses in local and global Christian organizations. Also includes a study of current media trends and ideas about how Christian media practitioners can use that knowledge to influence both secular and Christian media.

Offered fall semester

COM 1233 Podcasting and Online Audio Production

Three hours

An intermediate study of audio production with an emphasis on online applications such as podcasts and web streaming utilizing Adobe Audition. Voice and music recording, sound effects, and post-production sound for video are also explored. An additional fee associated with this course. Prerequisite: [COM 1101](#).

Offered fall semester (even-numbered years)

COM 2083 Masterpieces of Film

Three hours

A study of how filmmakers communicate and convey meaning to audiences through movies. Critically acclaimed and culturally relevant films throughout the history of the American film industry are analyzed, with emphasis on understanding Hollywood's various filmmaking techniques and philosophies. The motion picture's role in shaping society is also considered. Meets The Arts requirement of the Core Curriculum.

Offered each semester

COM 2101 Intermediate Radio Practicum

One hour

Five hours of weekly practice in practical broadcast experience on KLRC. Proficiency in announcing, control operation, handling of equipment, and other typical radio station duties are developed. Practical experience is offered through live shifts on the university's internet radio station and/or voice-tracking on KLRC. Prerequisite: [COM 1101](#).

Offered each semester

COM 2111, 2112 Practicum in Journalism

One or two hours

Work as a staff member for a university publication in 1) reporting, proofreading, advertising, editing, photography and layout on the Threefold Advocate student newspaper or 2) working in other university journalism functions. Prerequisite: [COM 2123](#).

Offered each semester

COM 2121 Beginning Forensics Practicum

One hour

Students on the Speech and Debate Team participate in competition, judging, peer coaching, or service projects during the course of the practicum. Students will attend at least one speech or debate tournament. A not-for-credit option is available.

Offered each semester

COM 2123 News Writing and Reporting

Three hours

Introduction to news for the print and electronic media, development of news concepts; laboratory in news-gathering tools and writing skills.

Offered fall semester

COM 2131 Intermediate Media Production Performance Practicum

One hour

Five hours weekly in performance for radio, television, and other electronic media productions.

Offered spring semester

COM 2163 Communication Technologies

Three hours

Gain practical experience creating and publishing a website both from scratch and using a popular open source Content Management System like Wordpress or Joomla. Topics covered include: HTML and CSS Fundamentals; Domain Registration and Setup; Using FTP; Image Types and Optimization; Introduction to JavaScript; Embedding Media; Responsive Design; Social Media Integration; and Accessibility Considerations. An additional fee associated with this course.

Offered fall semester

COM 2333 News Editing

Three hours

Copy editing, headline writing, graphic principles and processes, and new media technology. Students will become familiar with AP Style and learn how to do a newspaper layout. The importance of headlines and proper grammar and spelling will also be discussed. Students will finish this course better able to edit their own copy and the copy of others. (Same as [COM 2343](#).) Prerequisite: [COM 2123](#) or consent of instructor.

Offered spring semester

COM 2343 News Editing for Public Relations

Three hours

Copy editing, graphic principles and processes for public relations. Students will become familiar with AP Style and learn how to do a newspaper layout. The importance of headlines and proper grammar and spelling will also be discussed. Students will finish this course better able to edit their own copy and the copy of others. (Same as [COM 2333](#).) Prerequisite: [COM 2123](#) or consent of instructor.

Offered spring semester

COM 2353 Public Relations Writing and Technology

Three hours

Students will learn the basics of how to write in any public relations form. Copy produced will include press releases, memos, a PR crisis plan, newsletter, and a brochure. Students will also discuss what PR

moments there are in the news and how they, as PR professionals, would respond. Prerequisite: [COM 2123](#).

Offered fall semester

COM 2433 Diversity and Media Issues

Three hours

A study of the cultural communication climate in the United States and its depiction in news, entertainment, and other media.

Offered spring semester

COM 2523 Public Speaking

Three hours

Students gain theoretical and applied knowledge of public speaking techniques. Speeches may include extemporaneous, impromptu, informative, persuasive, or rhetorical analysis.

Offered each semester

COM 3101 Advanced Radio Practicum

One hour

Five hours of weekly responsibilities at KLRC. Students will develop advanced proficiency in announcing, control room skills, production, promotions, or other related radio station duties. May be repeated for credit. Prerequisites: [COM 2101](#) and consent of instructor.

Offered each semester

COM 3111, 3112 Advanced Practicum in Journalism

One or two hours

Advanced responsibility as a staff member for a university publication: 1) reporting, proofreading, photography, advertising, editing, and layout of the Threefold Advocate student newspaper and 2) work in other university journalism functions. Prerequisites: respective experience in [COM 2111](#) or [2112](#) and consent of Journalism advisor.

Offered each semester

COM 3121 Video/Audio Sports Practicum

One hour

Five hours weekly in performance and/or production of JBU sports content for Golden Eagle Productions. Content also may appear live on radio, cable television, and/or the Internet. May be repeated for credit.

Offered each semester

COM 3131 Radio News Practicum

One hour

Five hours weekly in performance and/or production of audio news content for MyPositiveEdge.com, JBU's online radio station. May be repeated for credit. Prerequisite: [COM 1101](#) and [2123](#) or consent of instructor.

Offered each semester

COM 3141 Media Production Program Assistant

One hour

Assists the faculty supervisor in the operations of TV Studio and Sports Broadcasting Lab. May be repeated for credit. Prerequisite: [COM 1153](#) or consent of instructor.

Offered each semester

COM 3151 KLRC Program Assistant

One hour

Assists the supervisor of KLRC: traffic, music selection, announcing schedules, promotions, and production. Prerequisites: [COM 3101](#) and consent of instructor.

Offered each semester

COM 3153 Specialized Media Production

Three hours

Principles and practices of news reporting; covering news beats and other news sources, including researching a news story for accuracy, comprehensiveness and interpretation. (Same as [COM 3653](#).) Prerequisite: [COM 2123](#).

Offered spring semester

COM 3161, 3162 Intermediate Forensics Practicum

One or two hours

Students complete advanced hands-on training and gain relevant experience in one or two of the following areas in speech and debate competition: Public Address, Argumentation and Debate, Limited Preparation Speaking, Oral Interpretation, Readers Theatre, or Student Congress. Prerequisite: [COM 2121](#).

Offered each semester

COM 3321 Independent Video Production

One hour

Practical experience in video production. Students work in consultation with a faculty supervisor to complete independent projects. Prerequisites: [COM 1153](#) and consent of instructor.

Offered each semester

COM 3363 Magazine Writing

Three hours

Study explanatory journalism techniques applied to complex subjects (such as science, economics, and large scale social change) for books, magazines, and newspaper series. Prerequisite: [COM 2123](#) or consent of instructor.

Offered fall semester (even-numbered years)

COM 3421 Advanced Media Production Practicum

One hour

Experiential learning in writing, producing, and presenting stories for radio, television, and the internet. Students will write and produce for the media production program on a regular basis throughout the semester. May be repeated for credit. Corequisite: [COM 4182](#).

Offered each semester

COM 3453 Social Movements

Three hours

A survey of social movements and the rhetorical strategies used to further those causes, including analysis of Abolition, Suffrage, Civil Rights, and other significant events.

Offered fall semester (odd-numbered years)

COM 3463 Opinion Writing

Three hours

Reporting and writing analytical articles, columns, editorials and blogs online, using Web attributes of interactivity, individualization, immediacy, and multi-media applications. Prerequisite: [COM 2123](#) or consent of instructor.

Offered spring semester (odd-numbered years)

COM 3653 Specialized Media Production for Public Relations

Three hours

Public relations writing for science, technology, health, medicine, corporate finance, educational policy, law and government in broadcast and technical media, as well as newspapers and magazines, also including proposals, speeches, and correspondence. (Same as [COM 3153](#).) Prerequisite: [COM 2353](#).

Offered spring semester

COM 3703 Leadership and Media Management

Three hours

Dramatic changes in the media industry require new management and leadership techniques and paradigms. This course aims to give students a survey of some of the latest management and leadership theories, including those encouraging a new sense of social responsibility.

Offered fall semester (even-numbered years)

COM 4161, 4162 Advanced Forensics Practicum

One or two hours

Students complete advanced hands-on training and gain relevant experience in one or two of the following areas in speech and debate competition: Speech Coaching, Debate Coaching, Tournament Administration, Team Management, Team Promotion, or Communication Praxis Preparation for Secondary Education. Prerequisite: [COM 3161](#).

Offered each semester

COM 4182 Sports/News Broadcasting

Two hours

Specialized concepts and techniques required to write scripts for a variety of storytelling media and contexts including podcasts, online video, radio and television news and narrative performance. Prerequisite: [COM 2123](#) or consent of instructor. Corequisite: [COM 3421](#).

Offered fall semester (odd-numbered years)

COM 4211, 4212 Online News Bureau Practicum

One or two hours

Advanced online journalism training. Students work as online reporters, editors, and producers for an online news magazine. Students also package copy from the print and broadcast. Prerequisites: [COM 3111](#) or [3112](#) and consent of instructor.

Offered each semester

COM 4243 Script Writing Workshop

Three hours

Specialized concepts and techniques required to write scripts for a variety of storytelling media and contexts including podcasts, online video, radio and television news, and/or narrative performance. Prerequisite: [COM 2123](#) or consent of instructor.

Offered spring semester (odd-numbered years)

COM 4293 Media Law and Digital Ethics

Three hours

A case-study approach to legal and ethical problems commonly encountered by mass media practitioners in digital and in traditional media contexts, with an emphasis on the First Amendment and its application. Topics include free speech, libel, invasion of privacy, copyright, freedom of information, protection of sources and federal media regulations. Prerequisite: [COM 1173](#).

Offered spring semester

COM 4323 Advertising

Three hours

Advertising: its economic role, layout, illustrations, copy, color, trademarks, slogans, media, campaign, and testing results. Study of buying motives of consumers and practical applications of preparing advertising copy.

Offered spring semester

COM 4333 Advanced Video/Audio Production

Three hours

Advanced principles, procedures, and techniques of video and video production. Students refine their skills producing for online video and television through the planning, production, and editing of a variety of single and multi-camera productions. An additional fee associated with this course. Prerequisite: [COM 1153](#) or [ART 2103](#) or consent of instructor.

Offered spring semester (even-numbered years)

COM 4343 Media Programming and Promotion

Three hours

This course focuses on principles, strategies, and approaches for creating, scheduling, bundling, marketing, and promoting content for digital media programming on the web, as well as digital radio and television. Students develop analytical framework for understanding industry trends in media programming and how those trends are influenced by audience research. Students create and schedule programs, apply programming strategies and philosophies, and learn relevant terminology and audience measurement techniques. Prerequisite: [COM 4293](#) or consent of instructor.

Offered spring semester (odd-numbered years)

COM 4363 Political Communication

Three hours

A study of the role of communication in the American political process. Campaign strategies, political oratory, grass roots activism, and other forms of political rhetoric will be explored.

Offered fall semester (even-numbered years)

COM 4373 Online Advocacy

Three hours

Online advocacy is a survey of the Internet use and the tools it provides to promote an issue, candidate, or organizational brand. This advocacy is demonstrated through a number of different formats and strategies and commonly includes the use of dedicated social networking sites.

Offered spring semester (even-numbered years)

COM 4413 Selected Topics in Media Production

Three hours

A seminar that offers students the opportunity for critical examination of a particular issue in contemporary media from a Christian perspective. Prerequisite: consent of instructor.

Offered upon sufficient request

COM 4443 Communication Internship

Three hours

Practical experience working under a qualified professional within governmental, non-profit, public relations, or media organizations. Responsibilities are tailored to develop skills in the student's particular area of concentration. Only one internship for credit may apply toward graduation. Prerequisites: junior standing and approval of advisor.

Offered each semester

COM 4453 Public Relations Planning

Three hours

Analysis of eight major programs typically carried out by public relations professionals: employee, media, financial, member, governmental, and community relations. Fundraising and dealing with activist publics are also major PR programs. Prerequisite: [COM 3653](#) or consent of instructor.

Offered fall semester (odd-numbered years)

Core Curriculum (COR) Courses

COR 1002 Gateway Seminar in Christian Scholarship

Two hours

The Gateway Seminar is an introduction to the purpose and method of Christian higher education and the distinctive mission of John Brown University, the communal intellectual life, and the application of a Christian worldview through exploration of a particular topic. This course also supports students in their transition to JBU. Must be taken during the student's first semester at JBU.

Offered each semester

Computer Science (CS) Courses

CS 1113 Introduction to Computing

Three hours

An introduction to algorithmic problem solving in the context of a modern programming language. Such topics as problem-solving strategies, basic data structures, data and procedural abstraction, and algorithm complexity are discussed. Three hours lecture-discussion per week. An additional fee associated with this course. Prerequisite: minimum ACT math score of 24, or SAT math score of at least 580, or [MTH 1113](#).

Offered fall semester

Economics (ECN) Courses

ECN 2003 Basic Economics

Three hours

An introduction to the basic concepts of economics, including microeconomics, macroeconomics, personal finance, economics ethics, and economic history. Meets the Social Science requirement of the Core Curriculum.

Offered fall semester

ECN 2043 Economies of the European Union

Three hours

Introduction to micro- and macro-economic issues through consideration of the Irish economy and the larger environment of the United Kingdom and the European Union. Students have the opportunity to meet leading business and trade union figures in Ireland and to visit industrial development bodies and financial and business organizations, with a view to become conversant in economic theories and their application to decision-making in private and public sector organizations.

Offered summer, [Irish Studies Program](#)

ECN 2093 Honors: Basic Economics

Three hours

A study of the market economy and the government's role in maintaining economic stability. Designed to equip the student with an information base needed for effective stewardship and for working within the political process to promote economic progress. Extensive use of individual, team, and class projects. Meets the Social Science requirement of the Core Curriculum. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered spring semester (odd-numbered years)

ECN 2113 Principles of Microeconomics

Three hours

A study of markets and how supply and demand interact to direct the allocation of resources. Topics include market structures, the role of competition, price theory, output determination, and income distribution. Market failure and policy responses to problems such as pollution and poverty are also considered. Meets the Social Science requirement of the Core Curriculum.

Offered fall semester

ECN 2123 Principles of Macroeconomics

Three hours

A study of the determinants of national output and employment levels, the monetary system, and public policy for economic growth and stabilization. Inflation, unemployment, productivity, economic growth, balance of payments, and the public debt are considered from the perspectives of various schools of thought. Meets the Social Science requirement of the Core Curriculum. Prerequisite: [ECN 2113](#).

Offered spring semester

ECN 2543 Economics and Society of Ireland

Three hours

On-location study of major economic and social issues facing Ireland, and by extension the European Union. Using primary text, *The Economics of European Integration*, students gain understanding of topics such as distribution of wealth and income, unemployment, economic and monetary union, common markets, cultural identity, and conditions for balanced growth. Other texts and class activities apply theories and insights to the Irish situation. Meets the Social Science requirement of the Core Curriculum.

Offered fall, [JBU Semester in Ireland](#)

ECN 3133 Money and Banking

Three hours

An examination of the U.S. banking system and the role it plays in providing for efficient exchange in the marketplace. Course discussions emphasize the roles of commercial banks, the Federal Reserve, and the U.S. Treasury in determining interest rates and the general well-being of the U.S. financial network. Also included is a review of monetary policy as a basis for policies to achieve the national economic goals of price stability, full employment, and balance of international payments. Prerequisite: [ECN 2123](#).

Offered spring semester (even-numbered years)

ECN 3213 Managerial Economics

Three hours

Application of microeconomic theory and analysis to business and administrative problems with an emphasis on sound, ethical decision-making. Topics include demand analysis, production and cost analysis, market structures and pricing practices, regulation, risk, and capital budgeting. Prerequisite: [ECN 2123](#).

Offered fall semester (even-numbered years)

ECN 4103 International Economics

Three hours

A study of the global economy with emphasis on the role of the United States. Topics include trade theory, trade restrictions, monetary systems, exchange rates, and the effect of domestic economic policies on global trade. Trade issues such as trade deficits, job displacement, economic sanctions, emerging nations, environmental issues, immigration, and currency crises are covered. Meets the Global Studies requirement of the Core Curriculum. Prerequisite: [ECN 2123](#).

Offered fall semester (even-numbered years)

ECN 4131, 4132, 4133 Selected Topics

One to three hours

A study of subjects of special interest. May be offered as independent study under faculty supervision. Prerequisites: junior standing and consent of instructor.

Offered upon sufficient request

ECN 4413 Economics of Resources and the Environment

Three hours

A study of the allocation of natural resources from a perspective of optimal use and sustainability. Emphasis is placed on market effectiveness, causes of and solutions to market failure, and public policy. This course also addresses the challenges of pollution, population, and economic growth. Prerequisite: [ECN 2123](#).

Offered spring semester (even-numbered years)

ECN 4423 Economic Growth and Development

Three hours

A survey of the major economic and social challenges facing developing nations. Traditional and contemporary models of growth and development are studied, with an emphasis on the problems related to poverty, population growth, urbanization, health, and education. Consideration is given to the global context for economic development, especially relating to international trade and foreign aid. Meets the Global Studies requirement in the Core Curriculum. Prerequisite: [ECN 2123](#).

Offered fall semester (odd-numbered years)

ECN 4993 Senior Research Project

Three hours

Individual, intensive study and presentation of an approved topic. This project is integrative in nature and is to be completed during the student's final year of study. Prerequisites: senior standing and consent of instructor.

Offered spring semester

Education (ED) Courses

ED 1111 Seminar in Education

One hour

An overview of the American public education system, JBU Teacher Education programs, and the licensure requirements for an Arkansas standard teacher's license. A weekly field assignment in a public school classroom is required.

Offered fall semester

ED 2033 Cultural Competencies for Human Service Professionals

Three hours

Designed as a multidisciplinary course for students in the human service professions. Exposes students to targeted populations within their field of study, at both the individual and organizational levels. Emphasizes improved decision-making and performance in a multi-cultural context, focusing on effective interpersonal communication. Attention is given to behaviors, language, customs, beliefs, and perspectives with the intent to reduce culturally-related disparities within the community and globally. Meets the Global Studies requirement of the Core Curriculum.

Offered fall semester

Offered summer (upon sufficient request)

ED 2143 Learning Theories and Developmental Psychology

Three hours

A study of major learning theories applicable to classroom teaching coordinated with the study of biosocial, cognitive, and psychosocial development of the human from birth through lifespan. Field experience required. Meets the Social Science requirement of the Core Curriculum.

Offered each semester

ED 2713 Differentiated Learning

Three hours

Orientation to the types of exceptionalities in children including those with pervasive cognitive delays, specific learning disabilities, emotional disturbances, other health impairments, lower SES considerations, giftedness, and culturally and linguistically diverse factors. This course includes an overview of Universal Design for Learning. Designed to orient candidates to the diverse learning needs within the classroom and in society. Field experience required. Prerequisite or corequisite: [ED 2143](#).

Offered spring semester

ED 2723 Special Education

Three hours

Examination of the types of exceptionalities in children including those with pervasive cognitive delays, specific learning disabilities, physical impairments, emotional disturbances, and other health impairments. This course covers the legal responsibilities, support systems, and instructional strategies necessary to provide effective instruction for learners in Special Education, including understanding of the IEP process, as well as awareness of students with Section 504 accommodation plans. This includes the self-contained environment and inclusive classroom (co-teaching). Designed to equip candidates to respond to the breadth of learners in Special Education needs within the public school system. Field experience required. Prerequisite or corequisite: [ED 2143](#).

Offered each semester

ED 3113 Framework for Teaching - Secondary Education

Three hours

An investigation of the principles of planning instruction, creating a climate for student learning, and use of valid and reliable assessments, including planning, environment and assessments for the culturally and linguistically diverse classroom (ESL). This course overviews Danielson's Framework for Teaching Domains 1, 2, and 4, with implementation during field experiences. Prerequisite: [ED 2143](#).

Offered fall semester

ED 3123 Framework for Teaching 1 - Elementary Education

Three hours

An investigation of the principles of planning and integrating Social Studies, Economics, and Fine Arts content and Instruction. Focus on creating a climate for K-6 student learning and use of valid and reliable assessments, including planning, environment and assessments for the culturally and linguistically diverse classroom (ESL). This course overviews Danielson's Framework for Teaching Domains 1 and 2, with implementation during field experiences. Prerequisite: [ED 2143](#).

Offered fall semester

ED 3133 Framework for Teaching 2 - Elementary Education

Three hours

Emphasizes the application of effective teaching skills and professionalism as detailed in the Danielson's Framework for Teaching Domains 3 and 4. Includes experiences with several teaching models appropriate for students of diverse backgrounds and special needs. Models integrated curriculum and teaching with Social Studies standards, methods, and materials, incorporated with Fine Arts content and Physical Education experiences throughout the course. Field experience required. Prerequisite: [ED 3123](#).

Offered spring semester

ED 3153 Disciplinary Literacy

Three hours

Secondary (7-12) candidates study assessment and instructional strategies designed to facilitate effective teaching of their content as well as the comprehension and effective use of content materials for all students, including ELL's and those with special needs. Methods are provided whereby candidates might evaluate the appropriateness of content materials and the learning needs of their students. Candidates must collaborate with a peer in developing a detailed, integrated unit that focuses on content instruction and includes learning objectives, appropriate use of teaching strategies, and assessment. Lab and field experiences required. Prerequisite: [ED 2143](#).

Offered fall semester

ED 3323 Elementary Language Arts (Blk 1)

Three hours

Elementary candidates will study language development and its importance with an emphasis on the use of methods and materials to facilitate learning in the six components of the language arts curriculum. Children's literature and new technologies will be explored to support literacy teaching and students' learning. Prerequisite: [ED 2143](#). Corequisite: [ED 3374](#).

Offered fall semester

ED 3374 Teaching Elementary Reading (Blk 1)

Four hours

Elementary candidates will become familiar with various literacy models and the theories that support them. This course provides a balanced overview of instruction and assessment and is designed to encompass both the theoretical and practical aspects of learning how to teach reading with an emphasis on guided reading and Common Core State Standards. Included are studies of the stages of reading development, reading components (phonemic awareness, phonics, fluency, comprehension, and vocabulary), assessment and technology. Embedded field experience required. Prerequisite: [ED 2143](#). Corequisite: [ED 3323](#).

Offered fall semester

ED 3563 Second Language Acquisition for Teachers

Three hours

A study of major theories in second language acquisition, with emphasis on contrastive principles of first and second language development. Special attention is given to second language acquisition implications in K-12 classrooms with culturally and linguistically diverse learners. Candidates are introduced to the dynamics of the educational process and the social, cultural, economic considerations, which affect second language development. Field experience required. Prerequisite or corequisite: [ED 2143](#).

Offered fall semester

ED 3583 Curriculum and Instruction: TESOL

Three hours

Methods and materials for teaching English to non-English speakers. Classroom strategies are addressed for teaching functional English to learners of all ages. The unique characteristics and needs of the K-12 program (content and language development), adult community education (literacy), and intensive English (academic) settings are analyzed. Candidates develop skills in the evaluation, selection, and

implementation of appropriate ESL materials and teaching strategies. Field experience required.
Prerequisite or corequisite: [ED 2143](#).

Offered spring semester

ED 3861, 3862 Field Experience in a Multicultural Environment

One to two hours

An opportunity to develop practical teaching skills while working with children in another culture. Under the direction of the program supervisor, participants plan and implement teaching strategies in various subject areas including science, math, literacy, sports, music, and basic tenets of Christianity. Students participate in a formal presentation of the program, maintain a daily log, and develop a paper outlining what they have learned. One credit hour is earned for each three weeks of participation.

Offered summer

ED 3903 Teaching in the Christian School

Three hours

An introduction to the history, philosophy, organization, and function of private Christian schools. The various curricular plans and methods are considered. Meets ACSI certification requirements. Prerequisite: [ED 2143](#).

Offered upon sufficient request

ED 4353 Teaching Elementary Writing (Blk 2)

Three hours

Procedures and methods to be used in teaching writing to elementary students, focusing on the three types of writing: Expository, Argument, and Narrative; the steps of the writing process; and the 6+1 traits of writing. Embedded field experiences required. Prerequisite: [ED 3374](#). Corequisites: [ED 4363](#), [4371](#), [4383](#), and register for Praxis II Elementary Content Knowledge.

Offered spring semester

ED 4363 Teaching Elementary Science (Blk 2)

Three hours

Methods and materials for teaching science to diverse K-6 students through inquiry-based lesson planning and Next Generation Science standards. Candidates will use science technology and tools in elementary classrooms through embedded field experiences. Prerequisites: [GSC 1043](#) and [1053](#). Corequisites: [ED 4353](#), [4371](#), and [4383](#).

Offered spring semester

ED 4371 Remedial Reading Tutoring (Blk 2)

One hour

Procedures and methods to be used in analyzing and diagnosing reading difficulties as well as appropriate strategies to be used to assist students with reading problems. Also addressed are skills and strategies necessary for reading content material. Field experiences in the areas of diagnosis and tutoring of reading difficulties. Prerequisite: [ED 3374](#). Corequisite: [ED 4353](#), [4363](#), [4383](#), and register for Praxis II Elementary Content Knowledge.

Offered spring semester

ED 4383 Teaching Elementary Mathematics (Blk 2)

Three hours

Elementary candidates will study methods and materials for teaching mathematics (based upon NCTM standards) to diverse students. Emphasis is placed on constructive principles and the use of mathematics

manipulatives, as well as CGI methodology. Embedded field experience required. Prerequisites: [ED 2143](#), [MTH 2143](#), and [2183](#). Corequisites: [ED 4353](#), [4363](#), and [4371](#). Prerequisite or corequisite: taking Praxis II ECE Content Knowledge.

Offered spring semester

ED 4613 Secondary Education: Content and Pedagogy - Social Studies

Three hours

General methods of teaching as detailed in Danielson's Framework for Teaching Domain 3 for secondary majors include objectives, lesson plans, teaching techniques, models of teaching, learning theories, motivation, classroom management, and differentiated instruction as applied to secondary grades. A consideration of the secondary school Social Studies curriculum, teaching strategies, and utilization of instructional materials. Reviewing the Social Studies curriculum as it relates to learning and development, differences in learning styles, critical thinking, problem solving and performance skills, active learning and motivation, inquiry collaboration, supportive classroom interaction, reflection, professional growth and professional leadership (based on NCSS pedagogical standards). Embedded field experience/field assignments with secondary Social Studies teachers required. Prerequisites: [ED 2713](#) and [3153](#).

Offered spring semester

ED 4623 Secondary Education: Content and Pedagogy - English

Three hours

General methods of teaching as detailed in Danielson's Framework for Teaching Domain 3 for secondary majors include objectives, lesson plans, teaching techniques, models of teaching, learning theories, motivation, classroom management, and differentiated instruction as applied to secondary grades. A consideration of the secondary school English curriculum, teaching strategies, and utilization of instructional materials. Reviewing the English curriculum as it relates to learning and development, differences in learning styles, critical thinking, problem solving and performance skills, active learning and motivation, inquiry collaboration, supportive classroom interaction, reflection, professional growth and professional leadership (based on NCTE pedagogical standards). Embedded field experience/field assignments with secondary English teachers required. Prerequisites: [ED 2713](#) and [3153](#).

Offered spring semester

ED 4633 Secondary Education: Content and Pedagogy - Mathematics

Three hours

General methods of teaching as detailed in Danielson's Framework for Teaching Domain 3 for secondary majors include objectives, lesson plans, teaching techniques, models of teaching, learning theories, motivation, classroom management, and differentiated instruction as applied to secondary grades. A consideration of the secondary school Mathematics curriculum, teaching strategies, and utilization of instructional materials. Reviewing the Mathematics curriculum as it relates to learning and development, differences in learning styles, critical thinking, problem solving and performance skills, active learning and motivation, inquiry collaboration, supportive classroom interaction, reflection, professional growth and professional leadership (based on NCTM pedagogical standards). Embedded field experience/field assignments with secondary Math teachers required. Prerequisites: [ED 2713](#) and [3153](#). Prerequisite or corequisite: [MTH 3143](#).

Offered spring semester

ED 4850 Internship: Elementary Education**Fourteen hours**

Interns are assigned to primary school(s) full-time to work under the joint supervision of an experienced classroom teacher and a university faculty member. Senior standing and approved formal admission to program required. 3rd Diversity Placement option is available and must be planned with PDS Director and Chair, Department of Teacher Education. An additional fee associated with this course. Prerequisites: senior standing, verification of having passed Praxis II Content Knowledge, [ED 2713](#), [3323](#), [3374](#), and [4353](#). Corequisite: [ED 4851](#).

Offered each semester

ED 4851 Seminar: Elementary Education**One hour**

Discussion of problems and concerns encountered during Internship. Designed to bring professional theory and practice into a working perspective. Includes basic concepts of classroom management, safety, legal and ethical issues affecting teaching, working with parents, portfolio assessment, and cultural diversity. Corequisite: [ED 4850](#).

Offered each semester

ED 4880 Internship: Secondary**Fourteen hours**

Interns are assigned to a secondary school full-time, to work under the joint supervision of an experienced classroom teacher and a university faculty member. Senior standing and approved formal admission to program required. An additional fee associated with this course. Prerequisites: verification of having passed Content Knowledge component of Praxis II, [ED 2713](#), [3153](#), Curriculum and Instruction course for teaching field, and any endorsement prerequisites. Corequisite: [ED 4881](#).

Offered each semester

ED 4881 Seminar: Secondary**One hour**

Discussion of problems and concerns encountered during Internship. Designed to bring professional theory and practice into a working perspective. Includes basic concepts of classroom management, safety, legal and ethical issues affecting teaching, working with parents, portfolio assessment, and cultural diversity. Corequisite: [ED 4880](#).

Offered each semester

ED 4890 Internship: K-12**Fourteen hours**

Interns are assigned to elementary and secondary schools full-time, to work under the joint supervision of experienced classroom teachers and a university faculty member. Senior standing and approved formal admission to program required. An additional fee associated with this course. Prerequisites: verification of having passed Content Knowledge component of Praxis II, [ED 2713](#), and Curriculum and Instruction course for teaching field. Corequisite: [ED 4891](#).

Offered each semester

ED 4891 Seminar: K-12**One hour**

Discussion of problems and concerns encountered during Internship. Designed to bring professional theory and practice into a working perspective. Includes basic concepts of classroom management, safety, legal

and ethical issues, affective teaching, working with parents, portfolio assessment, current school issues, and cultural diversity. Corequisite: [ED 4890](#).

Offered each semester

ED 4901, 4902, 4903 Selected Topics

One to three hours

An intensive study of a selected area of the school curriculum designed to meet the particular needs of pre-service and in-service teachers or administrators. Specific subtitles may be added. Department of Teacher Education approval required.

Offered each semester

ED 4911 School Experience

One hour

Weekly field experience based on teaching needs determined during internship. Prerequisites for Secondary Education majors: [ED 4880](#) and [4881](#); Prerequisites for Early Education majors: [ED 4850](#) and [4851](#); Prerequisites for Music Education majors: [ED 4890](#) and [4891](#). Corequisite: [ED 4912](#).

Offered spring semester

ED 4912 Education Capstone

Two hours

Based on internship experiences and understandings, an examination of factors affecting student learning and the culture of schools. Prerequisites for Secondary Education majors: [ED 4880](#) and [4881](#). Corequisite: ED 4911; Prerequisites for Early Education majors: ED 4850 and 4851. Corequisite: ED 4911; Prerequisites for Music Education majors: ED 4890 and 4891. Corequisite: ED 4911.

Offered spring semester

Electrical Engineering (EE) Courses

EE 2213 Digital Electronics

Three hours

A study of bipolar and MOS switching circuits, combinational and sequential logic design, and programmable logic devices. Includes a design component. Two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course.

Offered fall semester

EE 2223 Electrical Circuits

Three hours

A study of electrical circuits using Ohm's law, Kirchoff's laws and Thevenin's and Norton's theorems including time and frequency domains. First and second order circuits are studied including RC, RL and RLC components. Three hours lecture-discussion per week. Prerequisite: [EN 1323](#). Prerequisite or corequisite: [MTH 1144](#).

Offered spring semester

EE 3123 Embedded Systems

Three hours

An introduction to the design of embedded systems including their hardware and software architectures, design methodologies and tools, and communication protocols. Three hours lecture-discussion per week. An additional fee associated with this course. Prerequisites: [CS 1113](#) and [EE 2213](#).

Offered spring semester

EE 3313 Electronics I

Three hours

A study of diodes and transistors, including BJTs and FETs and the circuits that use them. Topics include biasing, rectifiers, limiters, clamps, amplifiers and switches, and operational amps. Two hours lecture-discussion and one three-hour laboratory per week. An additional fee associated with this course.

Prerequisite: [EE 2223](#).

Offered fall semester

EE 3323 Digital Systems

Three hours

A continuation from EE 2213 of the design and analysis of digital systems with particular emphasis in one or more areas of application. Two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisites: [EE 2213](#) and [EE 3313](#).

Offered fall semester

EE 3423 Signal Processing

Three hours

Includes signal representation, Fourier techniques, convolution, correlation, AM, PM, and FM modulation, spectral density, filter synthesis, and signal control. Includes two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisite: [EE 2223](#).

Offered spring semester

EE 3501, 3502, 3503 Selected Topics

One to three hours

A study of a special area of electrical engineering such as computer design, microprocessor applications, electric motor design, advanced logic design, digital filters, computer systems, digital control, or direct energy converters. May also be used as internship credit or independent study. Prerequisite: TBD according to topic.

Offered upon sufficient request

EE 4123 Electromagnetics

Three hours

Application of Maxwell's equations to transmission lines, waveguide, and antennas. Three hours lecture-discussion per week. (Same as [PHY 4123](#)). Prerequisite: [EN 3413](#).

Offered spring semester

EE 4213 Electronics II

Three hours

A study of the analysis and design of electronic circuits using diodes, BJTs and FETs. Topics include low and high frequency effects, power amps, oscillators, filters, and converters. Two hours lecture-discussion and one two-hour laboratory per week. Prerequisite: [EE 3313](#).

Offered upon sufficient request

EE 4303 Digital Signal Processing

Three hours

Theory and techniques of characterizing discrete time signals. Includes Fourier and Z-transform, flow graphs, digital filter design, quantization effects, and spectral estimation. Includes a design component. Two hours lecture-discussion and one two-hour laboratory per week. Prerequisite: [EE 2223](#).

Offered upon sufficient request

EE 4403 Advanced Digital Systems

Three hours

Topics may be selected from advanced logic design, coding, digital filters, computer systems, digital communications, or digital control.

Offered upon sufficient request

EE 4413 Digital Communications Theory

Three hours

Study of digital communications systems may include such topics as QAM, FSK, CPM, M-ary, PSK, ISI, coding theory, or correction theory/coding. Lab implements various communications in digital form. Two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisite: [EE 3423](#).

Offered fall semester

EE 4503 Data and Computer Communications

Three hours

A study of data transmission, encoding, multiplexing, networking, circuit and packet switching, and local and wide area networks. Also computer communication architecture including networking and protocols. Includes a design component. Two hours lecture-discussion and one two-hour laboratory per week. Prerequisites: [CS 1113](#) and [EE 2213](#).

Offered upon sufficient request

English (EGL) Courses

EGL 1003 Basic Writing

Three hours

Basic Writing is a course designed for students who need to improve written communication prior to taking the Core Curriculum requirement EGL 1013. This course equips students with a firm knowledge of the fundamentals of composition, standard English grammar, punctuation, and style. The course develops college-level reading, writing, and thinking skills; practical writing skills such as generating and focusing ideas for essays, composing drafts, and polishing (revising and editing) drafts; critical reading skills such as annotating, summarizing, responding, discussing, and synthesizing assigned readings; and critical thinking skills such as analysis; argumentation, and persuasion. Prerequisite: less than 20 on the ACT English score or SAT score of at least 500.

Offered fall semester

EGL 1013 English I: Composition

Three hours

An introduction to and practice in college writing in all its variety: from personal reflections to arguments and research-supported writing. A total of twenty pages of writing is required, including a short research paper.

Offered each semester

EGL 1023 English II: Literary Analysis and Research

Three hours

An introduction to the analysis of literary texts through reading and researching a selection of short stories, poems, dramas, and novels. In addition to essays of analysis of such works, a research paper is required. Prerequisite: [EGL 1013](#) (or [Honors counterpart](#)).

Offered each semester

EGL 1083 Honors: English I: Composition

Three hours

A course which has as its thematic core the ethnographical study of local cultures. Focus is on primary and secondary research methods, problem solving, and writing skills. Methods include experiential, reflective, integrative, and collaborative learning, and teaching by way of field experiences, group projects, interviews, guest speakers, and seminar-type participation. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered fall semester

EGL 1093 Honors: English II: Literary Analysis and Research

Three hours

An introduction to the analysis of literary texts, including poetry, drama, short fiction, and the novel. Methods may include collaborative learning, field experience, group projects, guest speakers, and seminar-type participation. Assignments will include analysis and response to literary texts and a short documented scholarly research paper, leading up to a longer research project in which the student works with a selected text, the author of that text, and secondary sources to analyze the production of texts in context. Prerequisites: admission to the Honors Program or permission of the Honors Committee and [EGL 1013](#) (or [Honors counterpart](#)).

Offered spring semester

EGL 1221 Introduction to English Studies

One hour

A seminar that explores the disciplines of language and literature, introduces students to departmental faculty and to graduates in the discipline, and prepares students for their work at JBU and for the decisions they will make regarding the professional world.

Offered fall semester

EGL 2213 World Literature I

Three hours

Readings of the major writers from antiquity through the Renaissance. Includes European authors such as Homer, Virgil, Dante, and Cervantes as well as classics of non-Western literature such as *Gilgamesh*,

Chinese poetry, Persian epic, and Japanese drama. A scholarly paper is required. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester (odd-numbered years)

EGL 2223 World Literature II

Three hours

Readings of the major writers from the Enlightenment through the contemporary period. Includes authors such as Molière, Voltaire, Goethe, Wordsworth, Ibsen, Kafka, and Beckett. A scholarly paper is required. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester (even-numbered years)

EGL 2243 Young Adult Literature

Three hours

An introduction to young adult literature as a genre, including an introduction to young adult literature as an academic field of study. Course readings will feature contemporary young adult literature. Assignments may include short literary analyses and a larger research paper. All students are required to present their research at the annual Undergraduate Research Symposium at JBU. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester (even-numbered years)

EGL 2273 Introduction to Creative Writing

Three hours

This course will provide a forum for beginning writers to acquaint themselves with and explore the conventions of poetry, short fiction, and creative nonfiction. Students will read widely and write extensively, learning to appreciate the creative process and developing a vocabulary for the craft. Prerequisite or corequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester

EGL 2393 Advanced Composition

Three hours

An advanced course in composition for English and Education majors in which rhetorical skills are developed and refined in the practice of writing thesis-driven literary analyses and researched arguments in MLA format. Multiple stages of revision through group work and peer review are a key component of the course. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester

EGL 2413 American Literature to 1900

Three hours

This course introduces the student to major and minor American writers from colonial times through the nineteenth century (e.g. Winthrop, Emerson, Dickinson, Poe, Whitman, Douglass, Twain). Students will be introduced to writing and research strategies regarding literary analysis. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered fall semester (even-numbered years)

EGL 3313 Medieval Literature

Three hours

A study of early English literature from the Anglo-Saxon period through the fifteenth century. Authors may include Chaucer, Langland, and Kempe; anonymous works may include *Beowulf*, *The Dream of the Rood*, and *Sir Gawain and the Green Knight*. Most works are read in translation; however, the course introduces

students to broad concepts in the history of the English language. A scholarly paper is required.

Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered fall semester (odd-numbered years)

EGL 3321 Writing Center Practicum

One hour

Experience in Writing Center methods through participant-observation, readings, and periodic staff meetings. Three hours of tutoring (peer reviews and grammar advice on student writing) each week and a weekly memo are required, plus web reports on each client served. Prerequisite: [EGL 2393](#). Prerequisite or corequisite: [EGL 3363](#).

Offered each semester

EGL 3323 Renaissance Literature

Three hours

A study of the masterpieces from the English Renaissance. Readings include major playwrights, such as Marlow, Jonson, and Webster, and lyric poets ranging from Sir Thomas Wyatt to Donne, Herbert, and Marvell. A scholarly paper is required. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester (even-numbered years)

EGL 3333 Shakespearean Drama

Three hours

Representative comedies, tragedies, histories, and romances. A scholarly paper is required. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester (odd-numbered years)

EGL 3341 Publishing Practicum

One hour

Students gain hands-on experience in the publishing world by working in teams on a real world publishing project for which they design, write, interact with a publisher, and revise according to publisher feedback. At the end of the course, projects are officially published and students have a real world publication for their résumés. Prerequisites: [EGL 2393](#) and junior standing.

Offered fall semester (even-numbered years)

EGL 3343 Restoration and Eighteenth Century Literature

Three hours

A study of the major writers, genres, and issues of this period. Authors may include Dryden, Behn, Pope, Richardson, Johnson, and Burney; issues may include British colonialism and slavery, the rise of the novel, and the beginnings of British feminism. A scholarly paper is required. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered fall semester (even-numbered years)

EGL 3353 Nineteenth Century British Literature

Three hours

A study of the major British writers of the Romantic and Victorian periods. Authors may include Wordsworth, Byron, Gaskell, Dickens, Browning, and Eliot; issues may include women's voting rights, the Industrial Revolution, and evolution. A scholarly paper is required. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered spring semester (odd-numbered years)

EGL 3363 Advanced English Grammar

Three hours

An analytically and pedagogically focused study of English grammar and an introduction to the history of the English language. Prerequisite: [EGL 2393](#).

Offered fall semester

EGL 3713 Literary Theory

Three hours

A study of the primary texts of literary criticism and aesthetics from Plato to the recent theorists, including Greenblatt, Derrida, Fish, and Foucault. Focuses on developing knowledge and application of the various ideas from the different schools of thought. A scholarly project-class presentation and paper-involving application of theories is required. Prerequisites: [EGL 1013](#), [1023](#) (or [Honors counterparts](#)), and one upper-level literature course. Prerequisite or corequisite: [RPH 3003](#) or [POL 3003](#).

Offered fall semester (odd-numbered years)

EGL 3991, 3992, 3993 Internship

One to three hours

Practical experience writing outside of the classroom in a professional setting. Interns have worked for non-profits, publishing houses, churches, and small businesses. Enrollment is limited to English majors. Students will keep a journal of their experiences and turn in a reflective essay at the end of the semester. Each semester hour represents 40 hours of service. Prerequisites: sophomore standing and a 3.0 major GPA.

Offered upon sufficient request

EGL 4003 Masterpieces of Literature

Three hours

An exploration of texts from ancient to modern world literature in drama, prose, and poetry. Authors may include Homer, Sophocles, Dante, Shakespeare, Voltaire, Dostoevsky, and Kafka. Reflective and analytical essays are required. A capstone of the Core Curriculum. Prerequisites: [EGL 1023](#), [HST 1013](#), [1023](#), (or [Honors counterparts](#)) and [RPH 3003](#).

Offered each semester

EGL 4043 Masterpieces of Literature: Ireland

Three hours

A reading-intensive overview of the literary history of Ireland through examination of selected works of writers William Butler Yeats, Oscar Wilde, George Bernard Shaw, James Joyce, C. S. Lewis, and others. A scholarly paper is required. May substitute for [EGL 4003](#) in the Core Curriculum. Prerequisites: [EGL 1023](#), [HST 1013](#), and [1023](#) (or [Honors counterparts](#)).

Offered summer, [Irish Studies Program](#)

EGL 4473 Creative Writing Workshop: Selected Genres

Three hours

Study of and practice in a designated genre or subgenre of creative writing, such as poetry, fiction, nonfiction, or writing from faith. Students submit original work for class critique. Significant writing,

reading, and participation are required. May be repeated for credit in a different genre/subgenre.

Prerequisite: [EGL 2273](#).

Offered each semester

EGL 4483 Selected Topics: Literature

Three hours

In-depth study of a literary topic of interest. Topics vary widely based on student and professor interest, and in the past have included C.S. Lewis and the Inklings, Jane Austen, Russian literature, James Joyce, and Gothic Fiction. A scholarly paper is required. Prerequisite: [EGL 1023](#) (or [Honors counterpart](#)).

Offered each semester

EGL 4611, 4612, 4613 Independent Study/Research

One to three hours

Independent study supervised by a member of the English faculty. A scholarly paper and/or a significant research project is required. Enrollment by consent of the department.

Offered upon sufficient request

EGL 4881 English Capstone

One hour

The English Capstone course will assess all Student Learning Outcomes for the English Major (writing and literature emphasis). This course will ask students to complete a standardized exam to assess "a high level of Understanding of the Field" of English literature; to construct a portfolio that demonstrates Creative or Critical Thinking, Independent Research, Improvement in Writing and Expression of Ideas, and an understanding of Christian Perspectives in literature; and to write several reflective essays. Prerequisite: senior standing.

Offered spring semester

Engineering (EN) Courses

EN 1112 Engineering Concepts and Design

Two hours

A first course in engineering involving basic engineering concepts and the design process. Two hours lecture-discussion per week. An additional fee associated with this course.

Offered fall semester

EN 1121 Production Techniques Laboratory

One hour

Basic training in the areas of welding, metal fabrication and machine tools. Two 2-hour laboratory periods per week. An additional fee associated with this course.

Offered fall semester

EN 1223 Concepts in Mechanical Engineering

Three hours

An introduction to the Mechanical Engineering profession. Course will provide an overview of: forces in structures, engineering materials, fluid mechanics, thermal and energy systems, power transmission, and machine design. Two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course.

Offered spring semester

EN 1323 Concepts in Electrical Engineering

Three hours

An introduction to electrical circuits: Ohm's Law, Kirchoff's Laws, Thevenin and Norton equivalent circuits, superposition, resistors, capacitors, and inductors. Two hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course.

Offered spring semester

EN 2322 Engineering Economics

Two hours

A study of economics as applied to engineering decision making. Consideration is given to financial decision making, comparisons of costing and payback schemes. The context is a free enterprise system, subject to government regulation and investment capitalization. Two hours lecture-discussion per week.

Offered spring semester

EN 3213 Engineering Materials Science

Three hours

A microscopic study of engineering materials, with emphasis on acquiring basic knowledge of microstructure and processes that relate to properties and performance of engineering materials. Three hours lecture-discussion-laboratory per week. Prerequisite: [CHM 1124](#).

Offered fall semester

EN 3222 Design Lab

Two hours

Student works on design projects in a team context. Four hours laboratory per week. An additional fee associated with this course. Prerequisites: [EN 1223](#) and [1323](#).

Offered spring semester

EN 3233 Advanced Computer Programming

Three hours

An introduction to principles of software engineering, data structures and algorithms, and user interfaces in the context of a modern object-oriented programming language. Three hours lecture-discussion per week. Prerequisite: [CS 1113](#).

Offered fall semester (odd-numbered years)

EN 3323 Power Electronics

Three hours

An introductory course to power electronics. A basic theory of power electronics and simulation software are covered, and laboratory sessions are included. Topics include DC-DC converters, DC power supplies, inverters, and designing printed circuit boards (PCBs). An additional fee associated with this course. Prerequisite: [EE 3313](#).

Offered upon sufficient request

EN 3343 Power Systems

Three hours

An introductory course to power system engineering. A basic theory of power system analysis/design and power simulation software are covered. Topics include power transformers, transmission lines, power flows, symmetrical components, and power system controls. Prerequisite: [EE 2223](#).

Offered upon sufficient request

EN 3413 Linear Signals and Systems

Three hours

Mathematical foundation for signal and systems in continuous (t) and discrete (n) time domains. Develop mathematical synthesis of signals and systems including linearity, time invariance, causality, stability, and interpret and translate equations in time/discrete and frequency domains. To include Fourier, Laplace, and Z-transforms. System modeling includes formulation of differential equations, signal flow diagrams, and stability theory. Three hours lecture-discussion per week. Prerequisite or corequisite: [MTH 2114](#).

Offered fall semester

EN 3501, 3502, 3503 Selected Topics

One to three hours

A study of a special area of engineering. May also be used as internship credit or independent study. Prerequisite: TBD according to topic.

Offered upon sufficient request

EN 3513 International Problem Solving

Three hours

An opportunity for students to acquire the knowledge, ability, and predisposition to work effectively with people from other cultures who define problems differently than they do. Through course instruction and interactions, students examine the historical, social, cultural, religious, political, and value systems that impact how people approach problems differently, and are prepared to work in multicultural, diverse professions. Meets the Global Studies requirement of the Core Curriculum. An additional fee associated with this course.

Offered fall semester

EN 4113 Engineering Design I

Three hours

A study of specifications, feasibility, modeling, optimization methods, elements of professionalism, and economic analysis. Initiation of the senior design project with written and oral reporting of preliminary work. Three hours lecture-discussion per week. An additional fee associated with this course. Prerequisites: [EN 3222](#) and [MTH 2123](#).

Offered fall semester

EN 4123 Engineering Design II

Three hours

A capstone course to integrate previous engineering learning experiences in problem formulation and solution. Includes the completion of the major design project initiated in Engineering Design I, with written and oral reporting of the work. Involves supervision of freshman design students. Three hours lecture-discussion per week. An additional fee associated with this course. Prerequisite: [EN 4113](#).

Offered spring semester

EN 4323 Control Systems

Three hours

A study of linear, continuous and digital, time-invariant control systems from both the classical transform and modern state-variable points of view. Three hours lecture-discussion per week. Prerequisite: [EE 2223](#).

Offered spring semester

EN 4333 Space Systems

Three hours

Course develops student's ability to solve problems and perform engineering design by developing systems for space applications. The nature of space creates a highly constrained design environment. Students will learn and apply various concepts from throughout the engineering curriculum as they study systems level engineering, and various topics such as: structures, controls, power, thermal management, digital electronics, analog electronics, radio frequency communications, network communications and orbit mechanics. Students will also learn about the space environment so that they can design a system for space application, and do so with a high degree of quality through well designed testing and risk management.

Offered upon sufficient request

EN 4403 Engineering Management

Three hours

A study of elements and process of engineering project management covering applicable subjects such as managerial processes, organizational behavior issues, project and task scheduling, cost estimating/evaluation/control, critical path evaluations, resource allocation, integrated tracking and control systems, risk analysis, problem identification, recovery processes and techniques, decision theory. Three hours lecture-discussion per week. Prerequisite: [EN 2322](#).

Offered upon sufficient request

Entrepreneurship (ENT) Courses

ENT 1003 Methods and Tools for Entrepreneurs

Three hours

A foundational course introducing key concepts driving entrepreneurship as well as the methods and tools within the field of entrepreneurship including business model innovation, design thinking, customer development, prototyping, experimenting, branding, and organizational dynamics of innovation.

Offered fall semester

ENT 2003 New Venture Financial Management

Three hours

A finance and accounting course which provides instruction concerning forecasting for a new venture, effectively managing cash flow in an emerging business, sources of financing (VC, bootstrapping, crowdfunding, etc.), company valuation, and exit planning. Prerequisite: [ENT 1003](#).

Offered spring semester

ENT 3003 Building Innovative Teams & Cultures

Three hours

JBU Business has a strong emphasis throughout its programming on people and leadership. In fact, teamwork is one of the most important skills for an entrepreneur; yet it is often overlooked in the classroom setting. This course will include many components of personal assessment and content around a people/culture strategy for entrepreneurs and innovation leaders. Prerequisite: [ENT 1003](#).

Offered fall semester

ENT 4113 Market Discovery and Validation

Three hours

Prepares students to identify new opportunities, recognize and prioritize risks, and validate ideas with customers in the market. Students bring ideas and instructor solicits new business ideas from the community. This course is dedicated to rapid research on ideas. Prerequisite: [ENT 1003](#).

Offered fall semester

ENT 4993 Innovation Launch Lab

Three hours

A capstone course following ENT 4113 in which students take business ideas, develop prototypes, and design experiments for the next phase of validation. Aligns with the JBU 2020 Strategic Plan to, “Expand and coordinate better opportunities so that more students can graduate with a capstone experience in their program of study.” An additional fee associated with this course. Prerequisites: [BUS 1123](#), [ENT 2003](#), [ENT 3003](#), [ENT 4113](#), and [MKT 4123](#).

Offered spring semester

Family & Human Services (FAM) Courses

FAM 2123 Psychology of Relationship Development

Three hours

A foundational course that integrates biblical and psychological literature in the area of interpersonal, marriage, and family relationships. Course work includes analysis and application of current theory and psychological research on gender differences, family of origin issues, sexuality, personality types, communication styles, forgiveness, dating, and emotional intelligence. This course may not be audited. Meets the Social Science requirement of the Core Curriculum. (Same as [PSY 2123](#).)

Offered spring semester

FAM 2133 Introduction to Family Science

Three hours

A study of family structure and dynamics from the perspective of theology and family science theory. Some of the major theories for understanding families are evaluated along with God's model of family roles and relationships, and what families are like when they are empowering or disabling, healthy or dysfunctional, successful or unsuccessful. Genograms are a major tool. Prerequisite: sophomore standing.

Offered each semester

FAM 2313 Professional Ethics and Practice

Three hours

This course will provide students with the ability to critically examine ethical questions and issues as they relate to the helping professions. Students will learn to evaluate, differentiate, and apply diverse approaches to ethical issues and dilemmas within the field of family science. Prerequisite: sophomore standing.

Offered fall semester

FAM 2413 Developmental Psychology

Three hours

A study of physical, cognitive, emotional, and social development of the human from conception through adulthood. Meets the Social Science requirement of the Core Curriculum. (Same as [PSY 2413](#).)

Prerequisite: [PSY 1013](#).

Offered each semester

FAM 3133 Marriage and Family Living

Three hours

A study of contemporary marital and family issues in light of a theological understanding of family relationships and responsibilities. Family lifespan issues and parent education issues include singleness, courtship, child-rearing practices, and effects through developmental stages, and factors known to affect family health.

Offered each semester

FAM 3223 Principles of Effective Parenting

Three hours

The course focuses on principles of effective parenting including theoretical approaches to understanding parent/child relations, parenting styles, the etiology of child behaviors, and mechanisms of behavior change. Various family structures and interactions over the family lifespan are considered. The course will also explore biblical and theological principles of parenting.

Offered each semester

FAM 3243 Family Sexuality

Three hours

A study of normal sexual development throughout the lifespan, considered from physical, social, spiritual, moral, and theological vantage points. By helping students understand typical expectations and experiences of human sexuality, they will be able to better recognize healthy and unhealthy sexuality in themselves and others. Prerequisite: junior standing.

Offered each semester

FAM 3273 Introduction to Therapeutic Play

Three hours

The course provides didactic and experiential training in how to be a therapeutic agent in children's lives by using structured therapeutic play sessions and techniques. Participants are taught basic child-centered play therapy principles and skills and will engage in observations of play therapy sessions and skill building therapeutic play sessions.

Offered spring semester

FAM 3413 Selected Topics

Three hours

Topics chosen from a variety of subjects such as Trauma, Grief and Addictions, Working with Orphans and Vulnerable Children, Philanthropy and Grant Writing, and International Human Rights and Social Justice.

Offered each semester

FAM 4113 Intercultural Family Seminar

Three hours

This course focuses on gaining knowledge about the cultural variations of families as well as their relationship to societal institutions. The class will include both didactic and experiential elements to expand helping skills in multicultural settings. Meets the Global Studies requirement of the Core Curriculum.

Offered spring semester

FAM 4223 Introduction to Senior Seminar

Three hours

This course introduces the student to the fundamentals of research for their Senior Seminar project. Course work includes development of a topic and research methodology.

Offered spring semester

FAM 4253 Family Communication

Three hours

A course designed to help students become more skillful in interpersonal communication as well as facilitating communication within the premarital and family setting. Includes communication for the purpose of building intimacy and conflict resolution. An additional fee associated with this course.

Prerequisite: junior standing.

Offered each semester

FAM 4433 Senior Seminar

Three hours

A capstone course in Family and Human Services in which students strive 1) to integrate their previous academic and internship experiences; 2) to complete a professional portfolio of their education, experiences, and work-samples; and 3) to demonstrate competence in their discipline through family life program evaluation, planning, and implementation. The senior project requires a major study and formal paper written for a professional program (secular, church, or parachurch) that provides family life education and/or services. To be taken during the student's final semester of study. Prerequisites: senior standing and [FAM 3133](#) or consent of instructor.

Offered fall semester

FAM 4443 Critical Concerns with Adolescents

Three hours

An examination of some of the critical issues facing parents, counselors, youth leaders, social workers, and educators by means of journal reviews, interviews, and computer searches. Students research topics such as teenage suicide, substance abuse, pregnancy and abortion, gangs, sexual/physical abuse, and divorce. (Same as [CMN 4443](#).)

Offered each semester

FAM 4453 Family Law and Society

Three hours

An understanding of the impact legal and policy issues have on families. Legal issues covered include Family and the Law (relating to marriage, divorce, adoption, and child protection and rights.), Family and

Social Services, Family and Education, Family and the Economy, and Public Policy and the Family. Additionally, a biblical presentation of social justice is presented. Prerequisite: junior standing.

Offered each semester

FAM 4481, 4482, 4483 Selected Topics

One to three hours

Topics are chosen from areas of Family and Human Services. The student may also do independent study and research under the supervision of the instructor. Prerequisite: consent of instructor.

Offered upon sufficient request

FAM 4611, 4612, 4614 Internship in Family and Human Services

One, two and four hours

Practical experience working under a qualified professional in the area of Family and Human Services or family life education. Enrollment is limited to majors and minors in this field. May be repeated for credit as needed to fulfill the necessary requirements. Each semester hour represents 50 hours of service.

Offered each semester

General Science (GSC) Courses

GSC 1023 Physical Science

Three hours

Selected and coherent topics in the sciences of physics, chemistry, and earth science. An evaluation of the scientific method and the contributions of the theories and facts of science to society are emphasized so that students have sufficient information to evaluate arguments using scientific justification. Three hours lecture-discussion-demonstration per week. Meets the Physical Science requirement of the Core Curriculum. Prerequisite: minimum ACT math score of 19, or SAT math score of at least 480, or [MTH 0153](#).

Offered each semester

GSC 1033 Astronomy

Three hours

A general education course consisting of the study of the basic concepts in astronomy and space science including a study of Newtonian mechanics, Kepler's laws, solar phenomenon, the near earth space environment, stellar evolution, classification and spectra, types of galaxies, and cosmology. Meets the Physical Science requirement of the Core Curriculum. Prerequisite: minimum ACT math score of 19, or SAT math score of at least 480, or [MTH 0153](#).

Offered fall semester

GSC 1043 Elementary Science Content I

Three hours

Introduction to the nature of science and technology with an emphasis on concepts in biology and engineering. Designed to meet the competency requirements for teacher licensure in elementary education. Topics include the structure and organization of life (from molecules to organisms), ecosystems, heredity, evolution, engineering design, and links among engineering, technology, science, and society. Integration of the Christian faith and the life sciences and technology will also be emphasized. Lab and lecture are

combined into two 2-hour class sessions per week. An additional fee associated with this course. Elementary Education majors only. Meets the Life Science requirement of the Core Curriculum.

Offered fall semester

GSC 1053 Elementary Science Content II

Three hours

Introduction to physical, earth, and space sciences to meet the competency requirements for teacher licensure in elementary education. Topics include matter and its interactions, motion and stability, energy, waves and their technological applications, the Earth's place in the universe, Earth's systems, and the Earth and human activity. Integration of the Christian faith and the physical sciences will also be emphasized. Three hours lecture-discussion-demonstration per week. Elementary Education majors only. Meets the Physical Science requirement of the Core Curriculum.

Offered spring semester

GSC 3003 Global Stewardship

Three hours

A practical examination of Christians' mandates to serve and care for the earth and to love our neighbors as we love ourselves. Both of these directives assume that we have a clear understanding of how Earth's biological, geological, chemical, anthropological, sociological, and political systems work. Students in Global Stewardship explore these issues through a study of environmental science from a perspective of Christian responsibility. Meets the Global Studies requirement of the Core Curriculum. Prerequisite: [Life Science Core](#).

Offered spring semester (odd-numbered years)

GSC 4133 Faith and Science

Three hours

A capstone course designed to assist students in developing an integrated view of faith and science. Topics are selected from fundamentals of the Christian faith, history of science, nature of science, discovering God in the physical universe, creation of life, evolution of life, science in philosophy and theology, science and culture, and images of man. Prerequisite: junior standing or consent of instructor.

Offered spring semester

History (HST) Courses

HST 1013 Western Civilization I

Three hours

A survey of the origins and development of Western civilization in its global context to the early Renaissance.

Offered each semester

HST 1023 Western Civilization II

Three hours

A survey of the development of Western civilization in its global context from the early Renaissance to the present.

Offered each semester

HST 1083 Honors: Western Civilization I**Three hours**

A survey of the origins and development of Western civilization in its global context to the early Renaissance, focusing on major issues and enduring human questions as they are addressed in the Great Texts of these societies. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered fall semester

HST 1093 Honors: Western Civilization II**Three hours**

A survey of the development of Western civilization in its global context from the Renaissance, focusing on major issues and enduring human questions as they are addressed in the Great Texts of these societies. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered spring semester

HST 2111 Selected Topics: Language Lab**One hour**

A rudimentary introduction to a language of interest, designed to enrich historical study of a particular era. Possible offerings include Egyptian Hieroglyphics, Greek, Roman inscriptions, Medieval Latin, Anglo-Saxon, and Romance and Celtic languages.

Offered spring semester

HST 2112 Selected Topics: Great Books**Two hours**

A two-hour course devoted to a single great work or author. Examples of the kinds of works focused on: Aristotle's *Nicomachean Ethics*; Booker T. Washington, *Up from Slavery*; *The Federalist Papers*; Tocqueville's *Democracy in America*.

Offered spring semester

HST 2113 United States History to 1865**Three hours**

A survey of American political, social, and economic history from the colonial era through the Civil War.

Offered fall semester (odd-numbered years)

HST 2123 United States History since 1865**Three hours**

A survey of American political, social, and economic history from the reconstruction era to the present.

Offered spring semester (even-numbered years)

HST 2153 Twentieth Century World History**Three hours**

A study of major political, economic, and military trends of the twentieth century.

Offered spring semester (odd-numbered years)

HST 2213 Study of History

Three hours

A course that introduces students to the skills needed for historical study, as well as to historiographical topics and challenges.

Offered fall semester (even-numbered years)

HST 2243 Middle Ages

Three hours

A study of medieval Europe with an emphasis on the role of the Celts, Germanic tribes, and the Church in shaping medieval society, culture, and intellectual life.

Offered spring semester (even-numbered years)

HST 2323 Poverty and Welfare in American History

Three hours

A study of poverty and welfare in American history from the colonial period to the present. Particular attention is paid to the theology of poverty in the American context.

Offered spring semester (even-numbered years)

HST 2413 Arkansas History

Three hours

A study of the political, social, and economic development of Arkansas from the eras of exploration and early statehood to the present. Major themes include the Civil War and Reconstruction, segregation and disenfranchisement, the one-party experience, progressivism, the struggle for democracy, and civil rights. Meets state requirements for elementary and secondary teachers.

Offered spring semester

HST 2523 Classical World

Three hours

A study of the ancient Western world from the development of Greece to the fall of the Roman Empire. The military, social, and political consequences of Greek and Roman rule are considered.

Offered fall semester (odd-numbered years)

HST 3253 British Empire

Three hours

A study of the origins, development, rise, and decline of the British Empire from the early modern period to the present. Among the themes considered is the British Empire's relationship with the United States since colonial times.

Offered upon sufficient request

HST 3263 Slavery and Race in American History

Three hours

A study of the development of American slavery in comparative context as well as the ongoing effects of slavery on American race relations. Topics include the development of the slave systems of the Atlantic world and United States and the relationship between slavery and the development of ideas of race in the U.S.

Offered fall semester (odd-numbered years)

HST 3273 America at War**Three hours**

A study of the causes, course, and consequences of various American Wars. The course's focus will change, one time (for example) emphasizing the insurgent wars in the Philippines, Vietnam, Iraq, and Afghanistan, another time focusing on war and the development of the U.S. in the eighteenth and nineteenth centuries.

Offered fall semester (even-numbered years)

HST 3313 Second World War**Three hours**

A study of the causes, course, and consequences of the Second World War. Special attention is given to the Nazi regime and to the experience of frontline combatants.

Offered spring semester (odd-numbered years)

HST 3411, 3412, 3413 Selected Topics**One to three hours**

Selected topics in history are considered. Examples include Renaissance Europe, American Founding, American West, and Nazi Germany. Prerequisite: consent of the History Department.

Offered upon sufficient request

HST 3423 Leaders in History**Three hours**

A study of leaders, well-known and lesser known, in their historical contexts. The efforts of leaders in business, politics, social and cultural movements, and warfare are examined. Consideration is given to success and failure, personality strengths and flaws, and leadership characteristics and styles.

Offered fall semester (odd-numbered years)

HST 3433 History of the Middle East, 600-1800**Three hours**

A study of the major political, religious, and social forces that shaped life in the Middle East from the time of Muhammad to the early modern period. Special attention is given to the development of the Islamic tradition and the interactions between Muslims, Jews, and Christians.

Offered fall semester (even-numbered years)

HST 3443 The Modern Middle East**Three hours**

An examination of the political and social environment of the Middle East from the beginning of the nineteenth century to the present. Topics that will be discussed include European colonization, the Ottoman Empire, Arab nationalism, the Arab-Israeli Conflict, the rise of the Islamist movement, and the U.S. involvement in the Gulf War. Meets the Global Studies requirement of the Core Curriculum.

Offered spring semester (odd-numbered years)

HST 3463 African Civilization to 1850**Three hours**

A study of the development of Africa to 1850. Attention is given to Africa in the global context. Areas of inquiry include Islam in Africa, sub-Saharan "stateless" societies, the slave trade, and colonization in South Africa.

Offered fall semester (even-numbered years)

HST 3473 African Civilization since 1850

Three hours

A study of the development of Africa since 1850. Topics include colonial ideology and rule, independence movements and African nationalism, post-colonial culture and politics, inter-and intra-state conflict, and contemporary issues in Africa. Meets the Global Studies requirement of the Core Curriculum.

Offered spring semester (odd-numbered years)

HST 3513 Introduction to Museum Studies

Three hours

An introduction to the educational, curatorial, exhibitions, public relations, and research missions of museums. Topics of discussion include organizational structure, curatorial management, records and material care, and the role of museums in community life.

Offered fall semester (odd-numbered years)

HST 4313 Internship in Museum Studies

Three hours

Practical experience working under the guidance of a qualified professional in a field related to museum studies. Each semester hour represents 45 hours of service. Prerequisite: [HST 3513](#).

Offered each semester

HST 4511, 4512, 4513 Independent Study

One to three hours

Supervised study of topics of special interest to the student and professor.

Offered upon sufficient request

HST 4613 Seminar in History

Three hours

The course brings psychological, philosophical, and theological reflections to bear on the study of history. All students will write a sophisticated research paper between 15-25 pages in length. Prerequisite: junior standing or consent of History Department.

Offered spring semester (even-numbered years)

Honors Courses

_____ 4193 Honors Capstone Project in _____

Three hours

A substantial scholarly or creative project/paper representing significant research, normally in the student's major field. The project must be approved by the college dean or division chair (and in some cases the department head), a faculty mentor, and the Honors Committee. Guidelines may be obtained from the Honors Scholars Office. Prerequisite: [COR 3111](#).

Offered each semester

_____ **4693 Honors Class Contract in** _____

Three hours

A substantial scholarly project/paper, including significant research and/or other appropriate activities that warrant honors credit, in a non-honors upper-division class in addition to the work normally required for the course. Must be approved by the associate dean or division chair, the faculty mentor, and the Honors Committee. Guidelines may be obtained from the Honors Scholars Office. Prerequisite: junior standing.

Offered each semester

_____ **4913 Honors Co-Teaching: Readings in** _____

_____ **4923 Honors Co-Teaching: Classroom Practicum in** _____

Each course, three hours

A six-hour teaching practicum with a master teacher as mentor. During the first semester, the student is assigned readings in pedagogy and the content area, resulting in a lengthy scholarly paper that articulates a theory of teaching and presents sample lesson plans. During the second semester, the upper-division student co-teaches a limited number of class sessions (up to one third) in an introductory level class. Must be approved by the undergraduate dean, the college dean or division chair, the faculty mentor, and the Honors Committee. Guidelines may be obtained from the Honors Scholars Office. Prerequisite: senior standing.

Offered each semester

Intercultural Studies (ICS) Courses

ICS 1511 Introduction to Walton Scholarship

One hour

Preparation for incoming freshmen in the Walton International Scholarship Program (WISP). A foundation for success at JBU is laid by helping students understand the WISP's goals and gain skills needed for a successful college career.

Offered fall semester

ICS 2113 Intercultural Communication

Three hours

A study of the process of interpersonal communication in one's own culture and the principles of effective communication within another cultural context. Attention is given to values, ethnocentricity, nonverbal communication, and change. Meets the Global Studies requirement of the Core Curriculum.

Offered each semester

ICS 2123 Cultural Anthropology

Three hours

The study of culture, language, economics, kinship, marriage, gender, social control, social stratification, religion, art, and cultural change from an applied anthropological perspective using case studies. Meets the Social Science requirement of the Core Curriculum.

Offered fall semester

ICS 2991, 2993 Study Abroad Experience

One or three hours

A study of a particular non-U.S. region or culture that includes a minimum four-week immersion experience in that region or culture. Meets the Global Studies requirement of the Core Curriculum.

Offered upon sufficient request

ICS 3133 Cultural Research Methods

Three hours

A study of the stages of field research, data-gathering techniques, participant observation, interviewing, census, mapping, document analysis, and trends in ethnographic research. Prerequisite: [ICS 2113](#) or [2123](#).

Offered spring semester (odd-numbered years)

ICS 3163 Geo-Cultural Studies

Three hours

Researching the history, geography, social structure, religious, and economic environments of specific countries to be visited by student teams.

Offered upon sufficient request

ICS 3171, 3172, 3173 Selected Topics

One to three hours

Investigation of subjects of specific interest and importance to the student preparing for specialized intercultural service.

Offered upon sufficient request

ICS 3243 Principles and Philosophy of Community Development

Three hours

An introduction to the basic principles and strategies of community development. Students learn how to facilitate community development in impoverished areas in such a way that faith and appropriate technology are joined together to reduce human drudgery, to alleviate poverty, and to contribute to a deeper understanding and effective application of spiritual truths. Emphasis is placed upon the developer's role as a facilitator of social change, the skills needed for facilitating social change, and an understanding of how communities adopt new ideas. Prerequisite: [ICS 2113](#) or [2123](#).

Offered fall semester (even-numbered years)

ICS 3263, 3283 Theory and Practice of Appropriate Technology I, II

Each course, three hours

Appropriate Technology (AT) is a study of applying technologies relevant to the context or environment in which they will be used. Emphasis is placed on applying technologies of housing and construction, energy, food production, land management, manufacturing, and health and sanitation to community development projects. Prerequisite for 3283: ICS 3263.

Offered summer (May)

ICS 4123 Intercultural Internship

Three hours

A supervised intercultural experience in which the student works with an approved mentor selected with the vocational objectives of the student in mind. A minimum of 135 hours of practical service is required.

Written assignments are required, including a personal philosophy of intercultural service. Limited to Intercultural Studies majors.

Offered each semester

ICS 4133 Intercultural Leadership Skills

Three hours

A practical examination of the process of developing and maintaining effective intercultural relationships. Leadership skills, intercultural team dynamics and conflict resolution, and the servant model of leadership are considered.

Offered fall semester (odd-numbered years)

ICS 4183 Cultural Values Seminar

Three hours

An examination of contemporary Western values contrasted with values expressed in other cultures and evaluated in light of biblical principles. Enrollment limited to Intercultural Studies majors and minors in the final year; by consent of the instructor. Prerequisite: [ICS 2113](#) or [2123](#).

Offered fall semester

ICS 4511 Capstone to Walton Scholarship

One hour

Preparation for graduating seniors in the Walton International Scholarship Program. Topics of discussion include re-entry into Latin American culture, professional considerations, and future roles as successful WISP alumni.

Offered spring semester

Interdisciplinary Studies (IDS) Courses

IDS 1152 Strategies for College Success

Two hours

The foundation of a successful college career is having great study and learning strategies. How does college fit God's plan for you? How does the brain learn? What are some study strategies to help the brain learn and retain information? What study strategies really help us learn? These are some of the questions we will explore and answer in this class. Students who complete this course should be better equipped to glorify God in their understanding of all areas of study and, more specifically, in their study of learning and study strategies.

Offered fall semester

IDS 3101 Careers for the Humanities

One hour

Intended for junior and senior students majoring in one of the humanities to prepare for the transition to life after college. This course will explore ways to make informed career decisions in their areas of study based on career guidance inventories and self-assessment tools. Students will also explore application tools that will enable them to more successfully apply to graduate school and careers after graduation.

Offered spring semester

International Business (INT) Courses

INT 2183 International Management

Three hours

A study of the role of management in directing and improving organizational performance in a global environment. Topics discussed include various types of risk, strategic planning, operations, communications, negotiation, legal and socio-ethical issues. Meets the Global Studies requirement of the Core Curriculum. (Same as [MGT 2183](#).)

Offered fall semester

INT 3153 International Marketing

Three hours

Study of the marketing process from an international/global perspective with emphasis on developing, promoting, and pricing products in emerging markets. Meets the Global Studies requirement of the Core Curriculum. (Same as [MKT 3153](#).) Prerequisite: [ECN 2003](#) or [2113](#).

Offered spring semester

INT 3173 International Finance

Three hours

Study of methods and processes of financial management for multinational organizations. Prerequisites: [ATG 2183](#), and [ECN 2003](#) or [2113](#).

Offered spring semester

INT 4131, 4132, 4133 Selected Topics

One to three hours

A course offering students opportunities to study subjects of special interest. May be offered on a group basis in a classroom setting or as independent study under faculty supervision. Prerequisites: junior standing and consent of instructor.

Offered upon sufficient request

Kinesiology (KIN) Courses

KIN 1002 Wellness for Life

Two hours

A practical study of fundamental health and wellness principles based upon the wellness model. Personal applications to the lifestyle of the individual that address Christian stewardship of their health and well-being are emphasized. Meets the Wellness requirement of the Core Curriculum.

Offered each semester

KIN 1012 Lifetime Fitness

Two hours

Basic instruction necessary for a lifetime of physical activity related to health and wellness. Emphasizes the major components of health-related physical fitness, including personal assessment and prescription/practice of physical activities. Meets the Wellness requirement of the Core Curriculum.

Offered each semester

KIN 1021 Wellness Activity: Selected Topic

One hour

An activity course other than those offered on a regular basis.

Offered upon significant request

KIN 1031 Tennis

One hour

An activity course designed to provide basic instruction in the game of tennis. Such topics as the history of tennis, equipment, rules and scoring, etiquette, fundamental skills, and strategy are addressed.

Offered each semester

KIN 1051 Swimming

One hour

An activity course offering instruction in the basic skills of swimming. Such topics as history, safety, basic techniques, and various strokes are addressed.

Offered upon sufficient request

KIN 1052 Lifeguarding

Two hours

Knowledge and advanced skill in swimming with training in lifeguarding. An additional fee associated with this course. Prerequisite: advanced swimming skills.

Offered upon sufficient request

KIN 1061 Golf

One hour

An activity course offering instruction in the basics of the game of golf. Such topics as the history of the game, equipment, course layout, fundamental skills, golf etiquette and terminology are addressed. An additional fee associated with this course.

Offered each semester

KIN 1071 Racquetball

One hour

An activity course offering instruction in the basics of the game of racquetball. Such topics as the history of the game, equipment, rules, playing regulations, fundamental skills and strategy are addressed.

Offered each semester

KIN 1081 Aerobic Walking/Jogging

One hour

An activity course offering students the opportunity to learn the basics of walking and jogging for fitness. Shoe selection, running/walking form, training ideas, safety measures, injuries, and terminology are topics covered.

Offered each semester

KIN 1091 Weight Training

One hour

An activity course designed to assist students in developing strength and stretching programs for fitness. Proper lifting techniques, training programs, and specific exercises for development of strength and endurance are covered.

Offered each semester

KIN 2103 First Aid, Safety, and CPR

Three hours

Instruction in basic first aid, safety, and cardiopulmonary resuscitation (CPR) to help the student develop the knowledge necessary to be an effective first responder to accidents or injuries. An additional fee associated with this course.

Offered fall semester

KIN 2123 Care of Athletic Injuries

Three hours

Instruction in the recognition, prevention, and care of athletic injuries as well as advanced emergency medical treatment, and proper selection, care, and use of protective sports equipment.

Offered spring semester

KIN 2181 Medical Terminology

One hour

Directed self-study in the use of the basic prefixes, suffixes, and roots of medical terminology. The course assists the student in utilizing medical terms appropriately in both written and verbal forms.

Offered spring semester

KIN 3123 Injury Evaluation of the Lower Extremity

Three hours

This course will introduce the student to injury evaluation and will provide a basis for injury assessment and field management of athletic injuries. This course will also serve to orient the student to basic musculoskeletal and neuromuscular structures of the lower extremity. Emphasis will be placed on basic and advanced recognition and evaluation skills.

Offered fall semester (even-numbered years)

KIN 3133 Injury Evaluation of the Upper Extremity

Three hours

This course will introduce the student to injury evaluation and will provide a basis for injury assessment and field management of athletic injuries. This course will also serve to orient the student to basic musculoskeletal and neuromuscular structures of the spine and upper extremity. Emphasis will be placed on basic and advanced recognition and evaluation skills.

Offered spring semester (odd-numbered years)

KIN 3303 Nutrition for Health and Human Performance

Three hours

A study of the nutritional considerations and implications for individuals active in physical fitness and sporting activities.

Offered spring semester (even-numbered years)

KIN 3313 Exercise Prescription Techniques**Three hours**

This course will introduce the student to exercise prescription and will provide a basis for program design emphasizing a personalized approach to individual client needs. The student will be exposed to a variety of assessment techniques designed to evaluate client fitness in the areas of cardiorespiratory fitness, neuromotor fitness, muscular fitness, and body composition.

Offered fall semester (odd-numbered years)

KIN 3333 Sport and Exercise Psychology**Three hours**

The study of the psychological processes which underlie involvement in sport and exercise activities. Focus will be given to issues of performance, motivation and aggression, interventions in sport, team and spectator factors, and socialization in sport, among others. An elective course which may be substituted for the Selected Topics course. (Same as [PSY 3333](#).) Prerequisite: [PSY 1013](#).

Offered spring semester (even-numbered years)

KIN 3353 Theory of Coaching**Three hours**

Exploration of philosophical, sociological, and psychological considerations of human performance in competitive athletics. Various theories of coaching are explored and practiced.

Offered fall semester (odd-numbered years)

KIN 3483 Therapeutic Exercises and Modalities**Three hours**

A study in theory and application of therapeutic modalities and rehabilitation exercise/equipment prescribed for the treatment and management of athletic injuries.

Offered fall semester (even-numbered years)

KIN 3941, 3942, 3493 Internship**One to three hours**

Practical experience working under a qualified professional in the area of sports medicine/athletic training, community health education, or fitness in an approved setting. Prerequisite: consent of advisor.

Offered each semester

KIN 4423 Biomechanics**Three hours**

A study of body movement and the analysis of those movements in terms of force, time, and dimension. The course includes anatomical and functional kinesiological content.

Offered spring semester (even-numbered years)

KIN 4433 Exercise Physiology**Three hours**

A study of physiological responses and adaptations of the human body to physical activity.

Offered spring semester (odd-numbered years)

KIN 4443 Management in Health and Sport

Three hours

Provides a study of the foundational principles and practices of personnel leadership, planning, budgeting, scheduling of facilities and events, purchasing, and other topics related to programs in the field.

Offered spring semester (odd-numbered years)

Latin American Studies Costa Rica (LCR) Courses

LCR 3116 Spanish Language

Six hours

Students arrive in Costa Rica with varying degrees of fluency in Spanish, so LASP places them in the Spanish class that corresponds to each participant's level of oral proficiency based on a placement exam and interview during orientation. Students study grammar, conversation, phonetics and/or literature based on the results of their tests. Classes are taught by Latin Americans. Because of this, participants hear and learn the language the way it is spoken in Latin America. This is reinforced during everyday interaction with Spanish-speaking host families. Prerequisite: [LS 3153](#) or [3163](#).

Offered each semester in Costa Rica

LCR 3213 Latin American History and Contemporary Issues

Three hours

This seminar introduces the social, historical, political, economic, and theological currents that constitute Latin American society and culture. The course includes discussions with Latin American experts and field trips to various sites. Prerequisite: [LS 3153](#) or [3163](#).

Offered each semester in Costa Rica

LCR 3513 Language and Literature Seminar

Three hours

In this class, students examine how Latin Americans view their neighbors to the north and around the world through conversations, conferences, and related literature. It examines Latin America through its literature, theatre, and arts, using them as a means to examine society and culture. Prerequisite: [LS 3153](#) or [3163](#).

Offered each semester in Costa Rica

LCR 3613 Community Immersion

Three hours

This class focuses on the social, cultural, political, economic, and religious issues of Latin America in the target language. Presentations by invited speakers are delivered in Spanish, while all required readings and assignments are written in Spanish. This class is designed to expand students' Spanish skills through additional language instruction and a community immersion experience outside San José as well as developing cultural competencies through study and hands-on experience. Prerequisite: [LS 3153](#) or [3163](#).

Leadership (LDR) Courses

LDR 1511, 1521, 1531, 1541, 1551, 1561 Leadership Colloquium

Each course, one hour

This course offers academic credit for the LSI curriculum of leadership events and activities. One credit may be awarded for the successful completion of each year of the program. Furthermore, special intensive leadership learning events or opportunities for specific application may be available for credit in addition to the regular curriculum. Course credit available only to LSI students who began fall of 2009, or thereafter.

Offered each semester

LDR 2121 Student Leadership

One hour

Student Leadership is a class required for all students who are going into campus leadership positions. This class is not typically taken to meet degree requirements but instead to prepare students for service on campus. A not-for-credit option is available.

Offered spring semester

LDR 2552 Service Learning

Two hours

A practical, self-directed independent study focused on giving students a better understanding of global issues and how to change these issues from information into action. Students research and present their chosen global issue in a variety of different methods throughout the semester.

Offered spring semester

LDR 2563 Leadership Competencies

Three hours

Focused analysis of leadership skill sets necessary to ensure good individual and organization performance: modeling the way, inspiring a shared vision, challenging the process, enabling others, and encouraging the heart. Attitudes and mindsets of effective leaders are also examined. Aspiring leaders lay groundwork for success through the exploration of real-world examples, practical applications, and numerous leadership exercises.

Offered fall semester

LDR 2991, 2992, 2993 Entrepreneurship in Action (ENACTUS Worldwide)

One to three hours

Student-directed program established to challenge students with creating sustainable solutions for the economic, environmental, and social problems that face domestic and foreign communities today. Emphasizes experiential acquisition of leadership skills through self-directed service projects and participation in regional, national, and international competitions. A not-for-credit option is available.

Offered each semester

LDR 3313 Student Mentoring Strategies and Experience

Three hours

A unique course designed to provide a forum for reflection and processing of the Gateway Student Mentor experience and to develop and practice important leadership skills that are transferable to other settings. Discussion revolves around such topics as group facilitation skills, mentoring and helping skills, leadership styles, classroom management strategies, and other related issues. Two credit hours come from the actual Gateway Student Mentoring and one credit hour involves a weekly seminar/ discussion class. The course may be repeated with instructor consent. May be taken for honors credit. Prerequisites: sophomore standing or higher; cumulative college GPA of 3.0 or higher; application; and instructor consent required.

Offered fall semester
Offered spring upon sufficient request

LDR 3383 Honors: Student Mentoring Strategies and Experience

Three hours

A unique course designed to provide a forum for reflection and processing of the Gateway Student Mentor experience and to develop and practice important leadership skills that are transferable to other settings. Discussion revolves around such topics as group facilitation skills, mentoring and helping skills, leadership styles, classroom management strategies, and other related issues. Two credit hours come from the actual Gateway Student Mentoring and one credit hour involves a weekly seminar/discussion class. The course may be repeated with instructor consent. Prerequisites: sophomore standing or higher; admission to Honors Program; cumulative college GPA of 3.0 or higher; application; and instructor consent required.

Offered fall semester
Offered spring upon sufficient request

LDR 3563 Organizational Leadership

Three hours

A capstone study of emotional intelligence and organizational behavior and how those concepts impact today's organizational challenges. Students analyze specific leadership situations, glean insight into such topics as conflict resolution, the four quadrants of EQ organizational behavior theory and practice. Using experiential learning methods, students analyze team and organizational processes in work situations increasing understanding of the concepts of consensus building, small group life-cycles, leading teams, and group dysfunction.

Offered spring semester

LDR 3651, 3652, 3653 Leader Scholars Institute Capstone Practicum

One to three hours

Designed to offer a pragmatic, culminating experience in applied leadership, this course provides a venue in which students design, implement, and evaluate an individual hands-on leadership project. Projects involve at least 50 hours of independent work for one credit, 100 hours for two credits, and 150 hours for three credits. This course is required of all LSI students and it is preferred that it be taken in their junior year. Exceptions to this policy may be granted by the instructor only.

Offered each semester

LDR 4131, 4132, 4133 Selected Topics

One to three hours

A course offering students opportunities to study subjects of special interest. May be offered on a group basis in a classroom setting or as independent study under faculty supervision. Prerequisites: junior standing and consent of instructor.

Language Studies (LS) Courses

LS 1113, 1123 Elementary Spanish I, II

Each course, three hours

Basic skills of listening, reading, speaking, and writing the language, with special emphasis on verbal and aural comprehension. An overview of the diverse cultures of the Spanish-speaking world is given. Students will be introduced to Hispanic civilization and culture in order that they gain a cultural awareness of the Hispanic way of life. These objectives will be achieved through the study of basic grammatical structures and vocabulary, participation in oral/aural activities, and exploration of some important aspects of Hispanic culture through readings and videos.

1113 offered fall semester
1123 offered spring semester

LS 1173, 1183, 1193 English as a Second Language I, II, III

Each course, three hours

The non-native English speaker who is judged not ready for [EGL 1013](#) is required to take LS 1173, 1183, and/or 1193. Advancement through the sequence of ESL courses is determined by the student's score on the ESL component of the COMPASS test. If satisfactory proficiency is not achieved, a student may be required to repeat an ESL course one or more times without additional credit.

1173 offered upon sufficient request
1183 offered fall semester
1193 offered each semester

LS 1213, 1223 Elementary French I, II

Each course, three hours

A study of the basic skills of listening, reading, speaking, and writing the language. Students are taught practical skills such as ordering meals, checking into a hotel or youth hostel, and using public transportation. Frequent dictées are done in class and as homework. Pronunciation is drilled and students make recordings which are graded. There is some work on gestures and physical greetings. Textbook-specific videos are used. Some attention is given to Francophone countries besides France.

1213 offered fall semester
1223 offered spring semester

LS 1313, 1323 Elementary German I, II

Each course, three hours

Basic skills of listening, reading, speaking, and writing the language, with special emphasis on verbal and aural comprehension. During the fall semester there is a short unit on the Reformation and German Advent and Christmas customs. The second course includes supplementary readings about German immigration to the U.S. Students who have German ancestry are encouraged to share family memorabilia and traditions with the class. German folk songs are taught each semester.

1313 offered fall semester (even-numbered years)
1323 offered spring semester (odd-numbered years)

LS 1413, 1423 Elementary Latin I, II

Each course, three hours

A foundational study of Latin vocabulary and grammar for the purpose of developing reading skills. Texts range from Vulgate New Testament passages, traditional Latin hymns, and historical documents such as the Nicene Creed in the first course, to Caesar's *Gallic Wars*, St. Paul's epistles, and writings of recent authors such as C.S. Lewis in the second. The courses also feature English-to-Latin translation exercises. Prerequisite for 1423: LS 1413.

1413 offered upon sufficient request

1423 offered upon sufficient request

LS 1513, 1523 Selected Topics

Each course, three hours

Introductory study of a language other than those regularly offered.

Offered upon sufficient request

LS 1593 Introduction to Latin America

Three hours

An examination of the commonalities as well as the unique national experiences of each country in Latin America. There is a significant historical component. The changing religious situation in the region is discussed as well as important current events. Much attention is given to Brazil. No knowledge of the Spanish language is required. Meets the Global Studies requirement of the Core Curriculum.

Offered upon sufficient request

LS 2113, 2123 Intermediate Spanish I, II

Each course, three hours

Advancing study of the language skills of listening, reading, speaking, and writing. Spanish 2113 and 2123 continue development of the four basic language skills along with control of vocabulary and language structures which enable the student to perform these skills accurately and effectively. While beginning classes place more emphasis on receptive skills (understanding what you hear and read), intermediate Spanish places increased emphasis on the productive skills of written and spoken expression. On-going emphasis on the cultural context of language will also expand the students' knowledge of Hispanic culture. Meets the Global Studies requirement of the Core Curriculum.

2113 offered fall semester

2123 offered spring semester

LS 2173 Introduction to Linguistics

Three hours

Topics covered: Phonetics, syntax, semantics, language change (special attention to the history of English), language variety (taxonomy and dialects), the Bible and language, Christian approaches to the study of language, and translation theory. This course is required for the French, Linguistics, and TESOL minors and the English Education major. Spanish majors and minors may take it in lieu of LS 3153. Meets the Social Science requirement of the Core Curriculum.

Offered spring semester (even-numbered years)

LS 2213, 2223 Intermediate French I, II

Each course, three hours

A review of grammatical topics taught in the elementary course sequence. There is much use of French-language television clips, feature films, songs, and assorted pedagogical videos. A unit on France during

WWII, with particular attention to the Holocaust, is included in LS 2223. Meets the Global Studies requirement of the Core Curriculum.

2213 offered fall semester
2223 offered spring semester

LS 2513, 2523 Selected Topics: Intermediate Language I, II

Each course, three hours

Intermediate study of a language other than those regularly offered. Meets the Global Studies requirement of the Core Curriculum.

Offered upon sufficient request

LS 3153 Conversation in Spanish

Three hours

An upper intermediate-level conversation class which seeks to improve speaking skills including pronunciation. Since communication involves using correct grammar, it does come up at times, but is not a focal point. By the end of this course, students should be able to converse on a wide variety of subjects. They should also be able to read newspaper articles in Spanish for general understanding and have an idea of the major current events in the Hispanic world. Conversation in Spanish precedes Professional Spanish, the linchpin course that connects to the students' other majors or minors. Prerequisites: [LS 2113](#) and [2123](#).

Offered fall semester

LS 3163 Professional Spanish

Three hours

A practical course conducted entirely in Spanish providing a solid foundation in the vocabulary and discourse patterns related to professional life. By the end of this course the student should be able to converse on a variety of subjects related to their chosen fields and the workplace in general. The student should also be able to read journals and media in Spanish on pertinent topics and be familiar with the major issues that will make the student's career a successful one. The professor ensures that each student exits with a résumé that is culturally-valid for the Spanish-speaking world. Prerequisites: [LS 2113](#) and [2123](#).

Offered spring semester

LS 3213 Readings in French I

Three hours

Readings about the culture of Francophone countries, with emphasis on societal issues in French-speaking Europe. A brief consideration of French history is included. Students use a variety of resources, including assigned texts, television, print media, the Internet, and others. Class presentations are required. This class is taught in French. Prerequisite: [LS 2223](#).

Offered upon sufficient request

LS 3223 Readings in French II

Three hours

A study of selected short stories, poetry, and essays by Francophone writers. Most of the works were produced by 19th- and 20th-century authors and poets such as Charles Baudelaire, Alphonse Daudet, and others. A final paper and a presentation are required. This class is taught in French. Prerequisite: [LS 2223](#); [LS 3213](#) recommended.

Offered upon sufficient request

LS 3513, 3523 Selected Topics: Advanced Language I, II

Each course, three hours

Advanced study of a language other than those regularly offered.

Offered upon sufficient request

LS 4113 Readings in Spanish I

Three hours

This course is a study of the civilization, culture, and history of Spanish-speaking America, with attention to the life, customs, philosophy, art, music, and general patterns of culture of the Spanish American people. We will discuss issues concerning the three greatest pre-Columbian civilizations (Mayans, Aztecs, and Incas) and the implications of Columbus' discovery of America for these ancient civilizations. Students will use a variety of resources, including assigned texts, television, print media, the Internet, and others. Class presentations are required. This class is taught in Spanish. Prerequisite: [LS 2123](#).

Offered fall semester (even-numbered years)

LS 4123 Readings in Spanish II

Three hours

The main objective of this course is to challenge students to analyze and reflect upon the evolution of Latin American literature, from its beginnings up to our present times. Students will become familiar with the diversity of Latin American literature through the study of selected short stories, poetry, and essays by Latin American writers such as Rubén Darío, Pablo Neruda, Gabriela Mistral, and others. A final creative work and presentation are required. This course is taught in Spanish. Prerequisite: [LS 2123](#); [LS 4113](#) recommended.

Offered spring semester (odd-numbered years)

LS 4143 Second Language Acquisition for Spanish Teachers

Three hours

Taught in Spanish, a foreign language pedagogy course designed for future middle and high school Spanish teachers. Some attention is given to problematic Spanish language issues such as orthography, the placing of accents, false cognates with English, pronunciation, and irregular verbs.

Offered upon sufficient request

LS 4193 Language Internship

Three hours

A minimum of 150 hours of contact time in a professional or ministry setting. Students keep a journal of their experiences, documenting specific vocabulary and grammatical forms they frequently used and a summary of their observations. Students begin logging internship hours early in their career at JBU, but register, pay, and receive credit for the internship during their senior year. The department head can provide examples of past projects. The final summary is conceived of as a portfolio piece. A presentation is made to faculty and students. Spanish majors may earn two additional hours of credit for service learning if they participate in the Acción Solidaria projects available in Seville. Prerequisite: junior standing. Corequisite: [LS 2123](#).

Offered each semester

Language Studies Seville (LSS) Courses

LSS 3044 Spanish Short Story

Four hours

In-depth study of the Spanish language through a selection of writings by three contemporary Spanish storytellers: Miguel de Unamuno; Leopoldo Alas, "Clarín"; and Ignacio Aldecoa.

Offered each semester

LSS 3064 History of Spanish Art

Four hours

Covers significant elements of Spanish art: Islamic, Romanesque, Gothic, Baroque, Modern and 20th Century. Includes paintings by Murillo, Velázquez, Picasso, and Dalí. Videos, slides, and field trips supplement classroom instruction. Additional fees may be associated with this course for field trip expenses.

Offered each semester

LSS 3114 Spanish History and Civilization

Four hours

Synthesis of the political, socio-economic, and cultural history of Spain from prehistoric origins through Imperial Spain, including the 19th century.

Offered each semester

LSS 3514 Advanced Spanish Grammar and Composition

Four hours

Grammatical structures and specific vocabulary used in a series of composition and conversation themes.

Offered each semester

LSS 3554, 3564 Spanish Literature I and II

Each course, four hours

Introductory studies of the history of Spanish literature. Literature I - reviews in theory and practice of the most representative passages of the key works of the Middle Ages, Renaissance, and Golden Age (the 11th through 17th centuries). Literature II - reviews in theory and practice of significant passages of the key works of the 18th, 19th, and 20th centuries.

3554 offered fall semester
3564 offered spring semester

LSS 4611, 4612, 4613, 4614 Selected Topics

One to four hours

In-depth study of a topic of particular interest. Prerequisites: advanced standing, approval of the Department of Language Studies, and consent of on-site instructor.

Offered upon sufficient request

Mechanical Engineering (ME) Courses

ME 3113 Thermal Sciences

Three hours

An introduction to the thermal sciences of mechanical engineering providing an overview of thermodynamics, fluid dynamics and heat transfer. Three hours lecture-discussion per week. (Same as [PHY 3113](#).) Prerequisites: [MTH 1144](#). Prerequisite or corequisite: [PHY 2114](#).

Offered fall semester

ME 3123 Dynamics

Three hours

Course develops vector analysis of the kinematics and kinetics of particles and rigid bodies using the concepts of Newton's laws, differential and integral calculus, vectors, coordinate systems, work, energy, impulse and momentum. Course develops problem solving skills using analytic, numerical and computer aided solution methods. Course has three hours lecture-discussion per week. Prerequisite: [ME 3313](#).

Offered spring semester

ME 3223 Thermodynamics

Three hours

A continuation from ME 3113 of the study of the laws of classical thermodynamics with a brief introduction to compressible flow. Energy conservation in closed and flowing systems. Application to power and refrigeration cycles. Three hours lecture-discussion per week. (Same as [PHY 3223](#).)

Prerequisite: [ME 3113](#).

Offered spring semester

ME 3313 Statics and Strength of Materials

Three hours

A design sequence from applied loads to selection of optimum material, shape, and size for the elements in structures or machines. Forces are resolved in static equilibrium, then elastic or plastic stress analysis is used to assure adequate strength and deflection. Three hours lecture-discussion per week. An additional fee associated with this course. Prerequisites: [EN 1223](#), [PHY 2114](#), and [MTH 2114](#).

Offered spring semester

ME 3501, 3502, 3503 Selected Topics

One to three hours

A study of a special area of mechanical engineering such as fluid induced vibrations, fluidics, rotating machinery, thermal energy converters, viscoelastic materials, or quality control. Prerequisite: TBD according to topic.

Offered upon sufficient request

ME 4103 Advanced Strength of Material

Three hours

Multidimensional considerations of stress and strain through constitutive models. Study of curved beams, pressure vessels, and machine components subjected to cyclic and thermal loading. Consideration of failure modes including plastic deformation analysis, rupture and fatigue. Three hours lecture-discussion per week. Prerequisite: [ME 3313](#).

Offered upon sufficient request

ME 4113 Machine Design

Three hours

Practical application of kinematics, materials mechanics, and mechanical processes to the design of machines and machine elements. Static and dynamic load analysis, stress analysis, material selection, and failure analysis. Three hours discussion-design per week. Prerequisite: [ME 3123](#).

Offered fall semester

ME 4203 Mechanical Vibrations

Three hours

A study of the oscillatory motions of bodies and the forces associated with them. Includes the study of undamped and damped, free and forced vibrations, vibration of continuous systems, and random vibrations. Three hours lecture-discussion per week. Prerequisite: [MTH 2114](#).

Offered upon sufficient request

ME 4213 Heat Transfer

Three hours

A study of energy movement due to temperature differences via the mechanisms of conduction, convection, and radiation. Includes a class design project. Three hours lecture-discussion per week.

Prerequisites: [MTH 2114](#) and [ME 3113](#).

Offered spring semester

ME 4303 Finite Element Analysis

Three hours

Finite element methods covering fundamental concepts and computer implementation. Topics include solutions of boundary value problems in fluid and solid mechanics with thermal effects and applications to engineering design. Three hours lecture-discussion per week. Prerequisites: [MTH 2114](#) and [ME 3313](#).

Offered upon sufficient request

ME 4323 Fluid Mechanics

Three hours

A study of the conservation of mass, momentum, and energy in relation to laminar and turbulent fluid flow. Viscous effects and application to steady and unsteady flow, incompressible and compressible fluids. Includes an individual design project. Two hours lecture-discussion and one two-hour laboratory period per week. An additional fee associated with this course. Prerequisite: [ME 3113](#).

Offered fall semester

ME 4403 Compressible Flow

Three hours

One-dimensional compressible flow of perfect gases. Includes Mach waves, normal and oblique shocks, Prandtl-Meyer expansion waves, isentropic flow in variable area ducts, and flows in constant area ducts with friction or heat transfer. Three hours lecture-discussion per week. Prerequisite: [ME 3113](#).

Offered upon sufficient request

ME 4603 Advanced Thermodynamics

Three hours

An extension to the thermodynamics taught in ME 3113 and ME 3223 Topics include: advanced power generation and refrigeration techniques, co-generation, development of property data, and gas mixture equilibrium. Includes a class design project. Three hours lecture-discussion per week. Prerequisite: [ME 3223](#).

Offered upon sufficient request

ME 4703 Aerospace Propulsion

Three hours

A study of aerospace propulsion devices, including jet engines and rockets. Application of compressible flow, thermodynamics, and fluid mechanics to propulsion systems. Includes analysis of engine components. Three hours lecture-discussion per week. Corequisite: [ME 3223](#).

Offered upon sufficient request

Management (MGT) Courses

MGT 2173 Principles of Management

Three hours

A study of basic principles of leadership and management from historical and contemporary perspectives. Topics include a discussion of the theories, concepts, interrelationships, moral dimensions, character, functions, and skills required to lead and manage in today's organizations.

Offered spring semester

MGT 2183 International Management

Three hours

A study of the role of management in directing and improving organizational performance in a global environment. Topics discussed include various types of risk, strategic planning, operations, communications, negotiation, legal and socio-ethical issues. Meets the Global Studies requirement of the Core Curriculum. (Same as [INT 2183](#).)

Offered fall semester

MGT 3513 Human Resource Management

Three hours

Introduction to human resource management principles, processes, and systems, including analysis of such elements as organizational assessment and human resource planning, recruitment and selection, compensation and benefits administration, training and development, employee relations, human resource management information systems, and employment laws.

Offered spring semester

MGT 3723 Project Management

Three hours

This course addresses the basic principles of project management, including concepts from the initiating, planning, executing, monitoring and controlling, and closing process groups. Introduces fundamentals of integration, scope, time, cost, quality, human resources, communications, risk, procurement, and stakeholder management. Provides training and experience with project management tools and techniques, including work breakdown structures, network diagrams, risk management, earned value management, and other tools. Prerequisite: [MGT 2173](#).

Offered spring semester (even-numbered years)

MGT 4131, 4132, 4133 Selected Topics

One to three hours

A course offering students opportunities to study subjects of special interest. May be offered on a group basis in a classroom setting or as independent study under faculty supervision. Prerequisites: junior standing and consent of instructor.

Offered upon sufficient request

Marketing (MKT) Courses

MKT 2143 Principles of Marketing

Three hours

A study of the marketing process for identifying a need and selecting target markets; developing a product to satisfy the need; and the distribution, promotion, and pricing of the product. Prerequisite: [ECN 2003](#) or [ECN 2113](#)

Offered spring semester

MKT 3133 Retailing

Three hours

Exposure to the many facets of retailing with a focus on contemporary concepts. Topics include marketing structures, environmental analysis, financial strategies, merchandising, pricing, promotion, distribution, personnel issues, electronic retailing business models, and effective e-commerce retailing strategies. Prerequisite: [MKT 2143](#).

Offered fall semester (odd-numbered years)

MKT 3153 International Marketing

Three hours

Study of the marketing process from a global perspective with emphasis on developing, promoting, and pricing products in emerging markets. Meets the Global Studies requirement of the Core Curriculum. (Same as [INT 3153](#)). Prerequisite: [ECN 2003](#) or [ECN 2113](#).

Offered spring semester

MKT 3163 Consumer Behavior

Three hours

A study of the buying patterns, decision-making, motivation, and behavior of the consumer. Students analyze the psychological, social, and economic influences on consumption. Prerequisite: [MKT 2143](#).

Offered fall semester (even-numbered years)

MKT 3883 Digital Marketing

Three hours

This course will explore current strategies and techniques in digital marketing and new media. Topics include an overview of internet marketing with a direct focus on social media marketing, web site optimization and analytics, content marketing, email marketing, e-commerce strategies, mobile marketing, search engine optimization, pay per click, conversion optimization, and other emerging web-based marketing techniques. Prerequisite: [MKT 2143](#).

Offered spring semester

MKT 4113 Marketing Research

Three hours

Applied study of marketing research using projects supplied by firms. Includes role and methods of marketing research as a means to enhance the marketing strategies and decisions of the modern business

organization. Theory and application of such topics as problem identification, research design, survey development, data analysis, and report presentations are covered. Client interaction is emphasized.

Prerequisites: [BUS 2193](#) and [MKT 2143](#).

Offered fall semester

MKT 4123 Integrated Marketing Communications

Three hours

This course examines the foundational aspects of integrated marketing communications (IMC) and its role in the marketing mix. Students will understand the interactive and systematic process of crafting a cohesive message to stakeholders resulting in a clear delivery of organizational value through multiple outlets. The theoretical underpinning of IMC will be examined using four pillars: stakeholders, content, channels, and results. Therefore emphasis will be placed on strategies that increase collaboration, and engagement, with audiences through both traditional and digital media. Prerequisite: [COM 2353](#), [ENT 1003](#), or [MKT 2143](#).

Offered spring semester

MKT 4131, 4132, 4133 Selected Topics

One to three hours

A course offering students opportunities to study subjects of special interest. May be offered on a group basis in a classroom setting or as independent study under faculty supervision. Prerequisites: junior standing and consent of instructor.

Offered upon sufficient request

MKT 4173 Marketing Strategies

Three hours

A capstone marketing course designed to integrate the student's knowledge of marketing through case analysis and practical application of marketing tools. Students design a marketing strategy for a community organization or business enterprise. Prerequisites: [MKT 2143](#) and [4113](#).

Offered spring semester

MSC (Military Science – Army ROTC)

MSC 1111, 1121 Military Skills and Leadership (MS I)

Each course, one hour

Incorporates the Army ROTC courses involving both classroom and outdoor instruction. Teaches basic rappelling and mountaineering, care, maintenance, and firing of weapons, and the fundamentals of land navigation and survival operations in a field environment. The MS I cadet also receives instruction in leadership, organization, and role of the Army and reserve forces, branches of the Army, and the Army physical fitness program. These classes consist of one hour lecture-discussion and one hour laboratory per week..

1111 offered fall semester

1121 offered spring semester

MSC 2112, 2122 Leadership Development I, II (MS II)

Each course, two hours

A continuation of basic ROTC courses. During MS II, cadets are taught basic military subjects such as land navigation, first aid, marksmanship, role of NCO's, military correspondence, and drill and ceremonies.

Cadets also spend time on leadership, Soviet military power, principles of war, and national defense policy. Two hours lecture-discussion and one hour leadership laboratory per week. Prerequisite: completion of MS I or equivalent, as determined by the Professor of Military Science. Wellness Activity requirement for the Core Curriculum will be waived upon completion of both of these courses.

2112 offered fall semester
2122 offered spring semester

MSC 3114, 3124 Applied Leadership I, II (MS III)

Each course, four hours

Development of managerial and leadership abilities, maximizing performance-oriented "hands-on" training. Student-led drill, physical training, and methods of instruction. Training intended to orient the students toward the ROTC Advanced Camp experienced normally in the summer prior to the senior year or fourth year of ROTC. Three hours lecture-discussion and three hours leadership laboratory (drill) per week. Prerequisite: completion of MS I and II, veteran status, Simultaneous Membership Program (SMP) participant or equivalent, as determined by the Professor of Military Science. Wellness or Lifetime Fitness requirement of the Core Curriculum will be waived upon completion of both of these courses.

3114 offered fall semester
3124 offered spring semester

MSC 4114, 4124 Advanced Leadership I, II (MS IV)

Each course, four hours

The study of various military organizations and their role in military operations. Discussion of command and staff management in military organizations, executive responsibility of Army commissioned officers, service customs, courtesies, and traditions. The study of personnel management, the military justice system, training, and maintenance management. Three hours lecture-discussion and three hours leadership and planning laboratory per week. Prerequisite: successful completion of MS III course work.

4114 offered fall semester
4124 offered spring semester

Mathematics (MTH) Courses

MTH 0153 Intermediate Algebra

Three hours

A course designed for students who need to improve their mathematical understanding and skills prior to taking [Core Curriculum](#) or major field math courses. This course covers the fundamentals of algebra, including simplification of algebraic expressions, solving and graphing equations and inequalities, solving linear systems, and exponential operations. Intermediate Algebra does not satisfy any college math requirements; credit does not apply toward minimum hours required for graduation.

Offered fall semester

MTH 1113 College Algebra

Three hours

Topics include solving equations and systems of equations, functions and graphing, inequalities, logarithms, exponentials, sequences, and series. An emphasis is placed on applied problems in physical, life, and social sciences. Meets the Mathematics requirement of the Core Curriculum. Prerequisite: minimum ACT math score of 19, or SAT math score of at least 480, or [MTH 0153](#).

Offered each semester

MTH 1122 Trigonometry

Two hours

Foundations and applications, including the trigonometric functions and their graphs, proving identities, analytic trigonometry, solution of triangles, two-dimensional vectors, and dot products. Prerequisite: minimum ACT math score of 19, or SAT math score of at least 480, or [MTH 0153](#).

Offered fall semester

MTH 1123 Survey of Calculus

Three hours

An introduction to the concepts of differentiation and integration. An emphasis is placed on applied problems in physical, life, and social sciences. A student may not earn credit in both MTH 1123 and 1134. Meets the Mathematics requirement of the Core Curriculum. Prerequisite: minimum ACT math score of 24, or SAT math score of at least 580, or [MTH 1113](#).

Offered spring semester

MTH 1134 Calculus I

Four hours

A study of the foundational principles of calculus with an emphasis on derivatives of functions of one variable and an introduction to integrals. A strong emphasis is placed on application to problems in science and engineering. Meets the Mathematics requirement of the Core Curriculum. Prerequisites: four years of high school mathematics, and a minimum ACT math score of 24, or SAT math score of at least 580, or [MTH 1113](#) and [1122](#).

Offered fall semester

MTH 1144 Calculus II

Four hours

A continuation of the study of fundamental calculus concepts, with special emphasis on integration and the use of infinite series. Applications to problems in physics, probability theory, and engineering are emphasized. Prerequisite: [MTH 1134](#).

Offered spring semester

MTH 2003 Introduction to Statistics

Three hours

A course to give students an understanding of the concepts of statistics and tools to become critical readers of current issues involving quantitative data. Applications of the use of data from a wide variety of professions, public policy, and everyday life are made. The course focuses on methods of producing data, organizing data, and drawing conclusions from data. Topics include descriptive statistics, frequency distributions, correlation, regression, inference, and significance. Selected topics in research design and the consumer price index are also taught. Meets the Mathematics requirement of the Core Curriculum. Prerequisite: minimum ACT math score of 19, or SAT math score of at least 480, or [MTH 0153](#).

Offered each semester

MTH 2103 Applied Statistics for Scientists

Three hours

A study of the essential statistical techniques needed to analyze your own experiments and understand the work of others with applications in medicine, biology, chemistry, and other scientific fields. Topics include descriptive statistics, probability distributions, sampling techniques, hypothesis testing (t-tests, z-tests, chi-

square tests, and ANOVA), correlation, and regression. Extensive use of statistical software packages is included. Meets the Mathematics requirement of the Core Curriculum. Prerequisite: minimum ACT math score of 23, or SAT math score of at least 560, or [MTH 1113](#).

Offered spring semester

MTH 2111 Problem-Solving Seminar

One hour

A presentation of mathematics in a format that increases students' problem-solving skills and prepares them to communicate mathematical content effectively. The course is designed to build a cohort of mathematics and secondary mathematics education students and covers a variety of topics from different branches of mathematics. The course must be taken at least twice by Mathematics majors and once by Mathematics Education majors.

Offered fall semester

MTH 2114 Linear Algebra and Differential Equations

Four hours

A continuation of the study of differential equations as begun in Calculus II with special emphasis on applications to problems in physics and engineering. The course also includes an introduction to linear algebra as this subject forms the basis for the study of higher dimensional systems of differential equations. In preparation for MTH 2123, the course ends with an introduction to vectors in two- and three-dimensional space. Prerequisite: [MTH 1144](#).

Offered fall semester

MTH 2123 Vector Calculus

Three hours

An introduction to the study and application of multivariable and vector calculus. Prerequisites: [MTH 1134](#) and [MTH 1144](#).

Offered spring semester

MTH 2143, 2183 Mathematical Structures I, II

Each course, three hours

A presentation of mathematics in a format that prepares teachers of elementary school mathematics. Topics include problem-solving, sets and logic, functions, the mathematical meaning and background of arithmetic through real numbers, number theory, probability and statistics, introductory geometry, geometric constructions, congruence, similarity, measurement, and coordinate geometry. Prerequisite for 2143: minimum ACT math score of 19, or SAT math score of at least 480, or Passing Score (State Level) on Praxis I Math, or [MTH 0153](#) with grade of 'C' or better. Prerequisite for 2183: [MTH 2143](#).

2143 offered fall semester
2183 offered spring semester

MTH 3101 Mathematics Teaching Practicum

One hour

Practical experience in mathematics instruction. Three hours per week. May be repeated once for credit. Prerequisites: Junior standing and consent of instructor.

Offered upon sufficient request

MTH 3103 Foundations of Mathematics

Three hours

Introductory predicate logic, set theory, and methods of mathematical proof. The general techniques learned are applied to topics from discrete mathematics, cardinality, metric spaces, algebraic structure, and field properties of real numbers. Prerequisite: [MTH 1144](#).

Offered fall semester

MTH 3113, 4113 Selected Topics

Each course, three hours

Topics are chosen from various branches of mathematics such as set theory, number theory, complex variables, history of mathematics, combinatorics, and topology. May be repeated for credit when content differs. Prerequisite: consent of instructor.

Offered upon sufficient request

MTH 3143 Topics in Mathematics Education

Three hours

An introduction to the philosophy and practice of teaching mathematics. Discussion and analysis of current trends and an introduction to the literature. Prerequisites: [MTH 1134](#) or [1123](#) and [2183](#).

Offered fall semester (even-numbered years)

MTH 3153 Foundations of Geometry

Three hours

An introduction to the theory of Euclidian, neutral, Lobachevskian, Riemannian, incidence, and affine geometrics, together with linear, planar and spatial order properties. Designed primarily for prospective secondary teachers of mathematics. Prerequisites: [MTH 1134](#) or [1123](#) and [2183](#).

Offered spring semester (odd-numbered years)

MTH 3173 Mathematical Modeling and Simulation

Three hours

A study of the building of mathematical models and computer simulations to describe selected topics from physical, biological, and social sciences. Prerequisites: [MTH 2123](#) and [CS 1113](#).

Offered upon sufficient request

MTH 3183 Probability and Statistics

Three hours

An introduction to the theory of probability and statistical inference including discrete and statistical inference, discrete and continuous random variables, sampling distributions, the Central Limit Theories, estimation, and hypothesis testing. Prerequisite: [MTH 1144](#); [MTH 2123](#) is strongly recommended but not required.

Offered spring semester

MTH 4123 Abstract Algebra

Three hours

An introduction to modern algebra and algebraic structures such as groups, rings, integral domains, and fields. Prerequisites: [MTH 2114](#) and [3103](#).

Offered spring semester (even-numbered years)

MTH 4143 Real Analysis

Three hours

A systematic study of topics in mathematical analysis such as the real number system, sequences, limits, continuity, differentiation, and integration. Prerequisites: [MTH 2123](#) and [3103](#).

Offered fall semester (odd-numbered years)

MTH 4221, 4222, 4223 Mathematics Research

One to three hours

Research projects in an area of mathematics of interest to the student and supervising faculty. May be repeated for credit up to a total of three hours counted toward fulfillment of upper-division elective credits in mathematics required for the Mathematics major.

Offered each semester

MTH 4501 Mathematics Capstone

One hour

Structured review of key concepts and problem-solving approaches in multiple disciplines of mathematics to foster the development of cross-connections between these disciplines while aiding students in preparing for the standardized achievement test required for completion of the Mathematics major. One hour lecture-discussion per week. Prerequisites: senior standing and completion of, or current enrollment in, all (or most) mathematics courses specified by the department for the Mathematics major.

Offered spring semester

Music (MUS) Course Descriptions

MUS 0890, 1890, 3890 Studio Class in Instrumental Music

No credit

Required of all students taking instrumental music. A weekly performance class in which students have the opportunity to perform for their peers and receive constructive remarks regarding technique, interpretation, and general performance procedures. Specific topics are addressed at the discretion of the instructors.

Offered upon sufficient request

MUS 0891 Applied Instrument

One hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. For Music majors and minors who do not meet requirements for Applied Instrument credit. Credits do not count toward Applied Instrument requirements or graduation hours. May be repeated each semester. An additional fee associated with this course. Prerequisite: consent of instructor. Corequisite: [MUS 0890](#) (if available).

Offered each semester

MUS 0971 Applied Organ

One hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. For Music majors and minors who do not meet requirements for the applied study in the major area.

Credits do not count toward applied requirements or toward graduation hours. May be repeated each semester. An additional fee associated with this course. Prerequisite: consent of instructor. Corequisite: [MUS 0990](#).

Offered each semester

MUS 0980, 1980, 3980 Studio Class in Voice

No credit

Required of all students taking Applied Voice. A weekly performance class in which students have the opportunity to perform for their peers and receive constructive remarks regarding technique, interpretation, and general performance procedures. Specific topics are addressed at the discretion of the instructors. Corequisite for 0980: [MUS 0981](#); for 1980: [MUS 1981](#), [1982](#), [1871](#) or [1872](#); for 3980: [MUS 3981](#) or [3982](#).

Offered each semester

MUS 0981 Applied Voice

One hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. For Music majors and minors who do not meet requirements for Applied Voice credit. Credits do not count toward Applied Voice requirements or graduation hours. May be repeated each semester. An additional fee associated with this course. Prerequisite: consent of instructor. Corequisite: [MUS 0980](#).

Offered each semester

MUS 0990, 1990, 3990 Studio Class in Piano

No credit

Required of all students taking Applied Piano. A weekly performance class in which students have the opportunity to perform for their peers and receive constructive remarks regarding technique, interpretation, and general performance procedures. Specific topics are addressed at the discretion of the instructors. Corequisite for 0990: [MUS 0991](#); for 1990: [MUS 1991](#), [1992](#) or [1881](#); for 3990: [MUS 3991](#) or [3992](#).

Offered each semester

MUS 0991 Applied Piano

One hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. For Music majors and minors who do not meet requirements for Applied Piano credit. Credits do not count toward Applied Piano requirements or toward graduation hours. May be repeated each semester. An additional fee associated with this course. Prerequisite: consent of instructor. Corequisite: [MUS 0990](#).

Offered each semester

MUS 1000 Recital Attendance

No credit

Satisfactory completion of a specified number of recitals and concerts each semester. Full-time music and worship arts majors must register every semester in order to complete the Recital Attendance requirements for graduation. Students in the B.Mus.Ed. program are exempted the semester of internship. Two semesters are required of students minoring in music or worship arts. Graded "S" or "U."

Offered each semester

MUS 1103 Elements of Music Theory

Three hours

Rudiments of music including meter, intervals, scales, key signatures, triads, and seventh chords. Includes fundamental aural skills and an introduction to notation software used in subsequent music theory course work. Credit does not count toward graduation hours or toward any Music Department field of study. May be waived by examination.

Offered fall semester

MUS 1111 Musicianship I

One hour

A course developing the aural skills of singing at sight and taking dictation. Musical materials representative of diatonic harmony of the common practice period. Two hours of laboratory per week.

Prerequisite: [MUS 1103](#) or waiver. Corequisite: [MUS 1113](#).

Offered spring semester

MUS 1113 Theory I

Three hours

A study of diatonic harmony of the common practice period with emphasis on analytical and part-writing skills. Pre-requisite: [MUS 1103](#) or waiver. Corequisite: [MUS 1111](#).

Offered spring semester

MUS 1203 Liberal Arts Foundations for the Musician

Three hours

An introduction to the music curriculum. Consideration of philosophical issues fundamental to the arts. Historical survey of music literature of the Western world, with emphasis on style, form, appreciation, and application of perception skills. An additional fee associated with this course. Meets The Arts requirement of the Core Curriculum. Prerequisite or corequisite: [EGL 1013](#).

Offered spring semester

MUS 1631, 1632 Music Practicum: Music Theatre Production

One or two hours

Forty-five hours of production assistance per credit hour in preparing and producing a music theatre production. Students will work under the direct supervision of the director of the music theatre production. Prerequisite: consent of instructor.

Offered the semester of a production

MUS 1731, 3731 Music and Theatre Scenes

Each course, one hour

Introduction to the art of stage craft through the medium of musical theatre, operetta, and opera. Stage movement and characterization skills are developed through performance in selected scenes. May be repeated for additional credit. A not-for-credit option is available.

Offered spring semester

MUS 1732, 3732 Music Theatre Production

Each course, two hours

Introduction to the art of stage craft through the medium of musical theatre, operetta, and opera. Stage movement and characterization skills are developed through performance in a fully staged production. May

be repeated for additional credit. A not-for-credit option is available. An additional fee associated with each course. Audition required.

Offered fall semester

MUS 1791 Recreational Guitar

One hour

One half-hour private lesson per week. Student must supply guitar for practice and lessons. Minimum amount of daily practice to be determined by instructor. Available for students not concentrating in guitar as part of a major or minor in either music or worship arts. An additional fee associated with this course. Prerequisite: consent of instructor.

Offered upon sufficient request

MUS 1831, 3831 Women's University Chorus

Each course, one hour

The ensemble performs a variety of styles from the standard collegiate and sacred choral literature. The group performs primarily for on-campus functions. Audition required. A not-for-credit option is available.

Offered each semester

1831 may be repeated each semester of lower-division study

3831 may be repeated each semester of upper-division study

MUS 1841, 3841 Instrumental Ensemble: Chamber Orchestra

Each course, one hour

The Chamber Orchestra performs a variety of styles from standard orchestral literature. There are performances each semester. Audition required. A not-for-credit option is available.

Offered each semester

1841 may be repeated each semester of lower-division study

3841 may be repeated each semester of upper-division study

MUS 1851 JBU Chapel Band

One hour

This ensemble seeks to develop the musicianship and character of all students participating in JBU Chapel Bands. Students will rehearse music to be used in leading weekly chapel services, as well as participate in team building exercises and discussions about the corporate worship culture of JBU. This course also serves as an opportunity for Chapel Leaders to practice pastoral care and leadership to a small group of student musicians. Online application and audition required. A not-for-credit option is available. An additional fee associated with this course.

Offered each semester

MUS 1861 Jazz Ensemble

One hour

An ensemble designed to give woodwind, brass, and percussion instrumentalists' performance opportunities in the genres of jazz and pop music. The group performs at home ball games and other venues. Two hours of rehearsal each week in addition to performances. Audition required. A not-for-credit option is available.

Offered each semester

MUS 1871, 1872 Applied Voice as an Elective

One or two hours

One half-hour private lesson per week for MUS 1871. A one or two half-hour private lesson per week for MUS 1872. Minimum amount of daily practice to be determined by instructor. For students taking voice as an elective. Credit does not count as applied hours for any students majoring or minoring in Music with voice as the emphasis or concentration. Students are not provided an accompanist. An additional fees associated with each course. Corequisite for both 1871 and 1872: [MUS 1980](#).

Offered each semester

MUS 1881, 1882 Applied Piano as an Elective

One or two hours

One half-hour private lesson per week for MUS 1881. A one or two half-hour private lesson per week for MUS 1882. Minimum amount of daily practice to be determined by instructor. For students taking piano as a secondary or elective instrument. Credit does not count as applied hours for any students majoring or minoring in music with piano as the major instrument. An additional fee associated with each course. Corequisite for both 1881 and 1882: [MUS 1990](#).

Offered each semester

MUS 1891, 3891 Applied Instrument

Each course, one hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. Available for majors and minors admitted into the Instrumental Major. An additional fee associated with each course. Prerequisites for 1891: see requirements to enter each level of work in Instrumental concentrate as listed in [General Requirements](#) for Music Degrees and consent of instructor. Corequisite for 1891: MUS 1890 (if available). Prerequisites for 3891: MUS 1891, [Upper-Division Applied Admittance Exam](#) and consent of instructor. Corequisite for 3891: MUS 3890 (if available).

Offered upon sufficient request

MUS 1892, 3892 Applied Instrument

Each course, two hours

A one-hour or two half-hour private lessons per week. Minimum amount of daily practice to be determined by instructor. Available for majors and minors admitted into the Instrumental Concentration. An additional fee associated with each course. Prerequisites for 1892: see requirements to enter each level of work in Instrumental concentrate as listed in [General Requirements](#) for Music degrees and consent of instructor. Corequisite for 1892: [MUS 1890](#) (if available). Prerequisite for 3892: [MUS 1892](#), [Upper-Division Applied Admittance Exam](#) and consent of instructor. Corequisite for 3892: [MUS 3890](#) (if available).

Offered upon sufficient request

MUS 1901 Basic Guitar Techniques

One hour

Class instruction focused on guitar playing styles and techniques applicable to church settings. Primary emphasis is given to playing rhythm guitar; some lead guitar techniques are addressed.

Offered upon sufficient request

MUS 1911 Lyric Diction I

One hour

Foreign language pronunciation for singers through application of the International Phonetic Alphabet with emphasis on Italian and introduction to German. Two fifty-minute sessions per week.

Offered spring semester (odd-numbered years)

MUS 1921 Lyric Diction II

One hour

Continuation of German pronunciation study with emphasis on French. Two fifty-minute sessions per week. Prerequisite: [MUS 1911](#).

Offered fall semester (odd-numbered years)

MUS 1931, 1941 Class Piano I, II

Each course, one hour

Basic keyboard techniques and application of music fundamentals to the keyboard, including major and minor scales, modes, chord progressions, arpeggios, harmonization, improvisation, accompaniments, transposition, solo and ensemble repertoire. Two hours of class each week and a half-hour of practice daily. Prerequisite for 1931: ability to read music notation. An additional fee associated with each course.

Prerequisite for 1941: [MUS 1931](#) or consent of instructor.

1931 offered fall semester

1941 offered spring semester

MUS 1951 Class Lessons in Voice

One hour

Group instruction with emphasis on foundational vocal techniques, practice skills, and beginning song literature. Two hours of class weekly and half-hour of practice daily.

1951 offered fall semester

MUS 1971, 3971 Applied Organ

Each course, one hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. An additional fee associated with each course. Prerequisites for 1971: see requirements to enter each level of work in Organ major as listed in [General Requirements](#) for Music Degrees and consent of instructor.

Corequisite: for 1971: [MUS 1990](#). Prerequisites for 3971: [MUS 1971](#) and [Upper-Division Applied Admittance Exam](#). Corequisite for 3971: [MUS 3990](#).

Offered each semester

1971 may be repeated each semester of lower-division study

3971 may be repeated each semester of upper-division study

MUS 1972, 3972 Applied Organ

Each course, two hours

A one-hour or two half-hour private lessons per week. Minimum amount of daily practice to be determined by instructor. An additional fee associated with each course. Prerequisites for 1972: see requirements to enter each level of work in Organ major as listed in [General Requirements](#) for Music Degrees and consent of instructor. Corequisite for 1972: [MUS 1990](#). Prerequisites for 3972: [MUS 1972](#) and [Upper-Division Applied Admittance Exam](#). Corequisite for 3972: [MUS 3990](#).

Offered each semester

1972 may be repeated for each semester of lower-division study
3972 may be repeated for each semester of upper-division study

MUS 1981, 3981 Applied Voice

Each course, one hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. An additional fee associated with each course. Prerequisites: see requirements to enter each level of work in Voice major as listed in [General Requirements](#) for Music Degrees and consent of instructor. Corequisite for 1981: [MUS 1980](#). Prerequisites for 3981: [MUS 1981](#) and [Upper-Division Applied Admittance Exam](#). Corequisite: for 3981: [MUS 3980](#).

Offered each semester

1981 may be repeated for each semester of lower-division study
3981 may be repeated for each semester of upper-division study

MUS 1982, 3982 Applied Voice

Each course, two hours

One 1-hour or two half-hour private lessons per week. Minimum amount of daily practice to be determined by instructor. An additional fee associated with each course. Prerequisites: see requirements to enter each level of work in Voice major listed in [General Requirements](#) for Music Degrees and consent of instructor. Corequisite for 1982: [MUS 1980](#). Prerequisites for MUS 3982: [MUS 1982](#) and [Upper-Division Applied Admittance Exam](#). Corequisite for 3982: [MUS 3980](#).

Offered each semester

1982 may be repeated for each semester of lower-division study
3982 may be repeated for each semester of upper-division study

MUS 1991, 3991 Applied Piano

Each course, one hour

One half-hour private lesson per week. Minimum amount of daily practice to be determined by instructor. An additional fee associated with each course. Prerequisites: see requirements to enter each level of work in Piano major as listed in [General Requirements](#) for Music Degrees and consent of instructor. Corequisite for 1991: [MUS 1990](#). Prerequisites for 3991: [MUS 1991](#) and [Upper-Division Applied Admittance Exam](#). Corequisite for 3991: [MUS 3990](#).

Offered each semester

1991 may be repeated for each semester of lower-division study
3991 may be repeated for each semester of upper-division study

MUS 1992, 3992 Applied Piano

Each course, two hours

A one-hour or two half-hour private lessons per week. Minimum amount of daily practice to be determined by instructor. An additional fee associated with each course. Prerequisites: see requirements to enter each level of work in Piano major as listed in [General Requirements](#) for Music Degrees and consent of instructor. Corequisite for 1992: [MUS 1990](#). Prerequisites for 3992: [MUS 1992](#) and [Upper-Division Applied Admittance Exam](#). Corequisite for 3992: [MUS 3990](#).

Offered each semester
1992 may be repeated for each semester of lower-division study
3992 may be repeated for each semester of upper-division study

MUS 2003 Masterpieces of the Arts

Three hours

An introduction to music and the visual art forms. Consideration is given to philosophical issues fundamental to the arts. Selected masterworks of instrumental and/or vocal music, architecture, painting, and sculpture are studied, with emphasis on style, form, and application of perception skills. Meets The Arts requirement of the Core Curriculum.

Offered fall and spring (even-numbered years)

MUS 2083 Masterpieces of Music

Three hours

An introduction to music, through the study of selected masterworks of concert and stage genres representative of a variety of historical periods. Emphases on style and form, understanding and appreciation, and application to other examples of the perception skills developed through the study of the selected works. Meets The Arts requirement of the Core Curriculum.

Offered spring semester

MUS 2111 Musicianship II

One hour

A course developing the aural skills of singing at sight and taking dictation. Musical materials representative of diatonic and chromatic harmony of the common practice period. Two hours laboratory per week. Prerequisite: [MUS 1111](#).

Offered fall semester

MUS 2113 Theory II

Three hours

A study of chromatic harmony of the common practice period, with emphasis on analytical and part-writing skills. Prerequisite: [MUS 1113](#).

Offered fall semester

MUS 2403 Understanding Worship Arts I: Orientation

Three hours

Understanding Worship Arts I is a course designed to provide non-musical pastors with opportunities to learn and experience various aspects of the Worship Arts vocation. Students will participate in lectures, discussions, and readings in the areas of theology, ecclesiology, and spiritual formation that aim to broaden their worship perspective alongside Worship Arts majors and minors, allowing them to cultivate an appreciation for various leadership, planning, and music styles together. Students in this course will also develop language skills to communicate with Worship Pastors, helping them to effectively communicate vision, encouragement and constructive criticism. In conjunction, the student is challenged to evaluate his or her leadership off the stage through candid group discussion and individual analysis. These exercises aim to broaden the student's worship perspective by viewing all facets of life as genuine acts of worship. (Same as [MUS 2503](#).)

Offered fall semester

MUS 2413 Understanding Worship Arts II: Materials and Methods

Three hours

Understanding Worship Arts II seeks to move from understanding the philosophy of worship arts to understanding the processes employed by worship pastors in service planning such as song selection, transitions, and exhortations. Students will not only learn these processes but will also evaluate the effectiveness of these processes in various situations. The course also equips the student with keen observation and critical thinking skills; the student can utilize these skills to evaluate the theological integrity and pastoral effectiveness of any corporate worship gathering. In addition, this course requires the student to serve several times with various non-profit organizations that aim to help the disenfranchised people of Northwest Arkansas. This component of the course seeks to encourage the student to continue to view worship as a lifestyle, far more than a Sunday morning activity. (Same as [MUS 2513](#).) Prerequisite: [MUS 2403](#).

Offered spring semester

MUS 2503 Worship Arts I: Orientation

Three hours

Worship I is the first of two foundation courses placed at the beginning of the worship arts Core Curriculum sequence. This course seeks to discover each student's "worship starting point," identifying local church background and other worship experiences that have shaped this initial perspective. From there, lectures, discussions, and readings in the areas of theology, ecclesiology, and spiritual formation aim to broaden this worship perspective by cultivating an appreciation for various leadership, planning, and music styles that may or may not align with the student's personal preference. In conjunction, the student is challenged to evaluate his or her worship leadership off the stage through candid group discussion and individual analysis. These exercises aim to broaden the student's worship perspective by viewing all facets of life as genuine acts of worship. (Same as [MUS 2403](#).) Prerequisites: [MUS 1111](#) and [1113](#).

Offered fall semester

MUS 2513 Worship Arts II: Materials and Methods

Three hours

Worship II seeks to give a practical face to the concepts learned in Worship I. The student learns much about the reality of actually serving as a worship pastor in a local congregation. This course teaches various fundamentals of corporate worship planning, such as song selection, transitions, and exhortations. However, it also equips the student with keen observation and critical thinking skills; the student can utilize these skills to evaluate the theological integrity and pastoral effectiveness of any corporate worship gathering. In addition, this course requires the student to serve several times with various non-profit organizations that aim to help the disenfranchised people of Northwest Arkansas through music. This component of the course seeks to encourage the student to continue to view worship as a lifestyle, far more than a Sunday morning activity. (Same as [MUS 2413](#).) Prerequisite: [MUS 2503](#).

Offered spring semester

MUS 2601 Accompanying Class

One hour

Various aspects of accompanying including how to analyze and rehearse music, how to maintain ensemble balance, and the working out of performance details involved with collaborative musical artistry. Repertoire presented is from standard vocal, choral, instrumental, and church music. Students gain experience and practice accompanying other students during the semester.

Offered upon sufficient request

MUS 2901 Guitar in Worship

One hour

Application of guitar skills to the worship setting. Prerequisite: [MUS 1901](#) or waiver.

Offered upon sufficient request

MUS 2931, 2941 Class Piano III, IV

Each course, one hour

Continuation of keyboard techniques including major and minor scales, modes, chord progressions and inversions, arpeggios, harmonization, improvisation, vocal and instrumental accompaniments, vocal and instrumental score reading (including transposing instruments), solo and ensemble repertoire. Two hours of class each week and half-hour practice daily. An additional fee associated with each course. Prerequisite for 2931: [MUS 1941](#) or consent of instructor. Prerequisite for 2941: [MUS 2931](#) or consent of instructor.

2931 offered fall semester
2941 offered spring semester

MUS 3101 Survey of Instruments

One hour

A survey of wind, string, and percussion instruments. Functional knowledge with a "hands-on" approach. Includes arranging projects utilizing *Finale* software. Two hours laboratory per week. Prerequisites: [MUS 1111](#) and [1113](#).

Offered fall semester (odd-numbered years)

MUS 3131 Introduction to Commercial Voice Techniques

One hour

Group instruction and application of techniques specific to commercial singing including belting, vowel treatment and articulation, resonance and microphone use. Through song preparation and performance, students will research and compare musical theatre, jazz, pop, rock, country, and contemporary Christian singing styles. Prerequisite: completion of Upper-Division Admittance Exam.

Offered fall semester (even-numbered years)

MUS 3151 Functional Keyboard Skills I

One hour

Acquisition of keyboard skills beyond note-reading, such as playing from chord charts, harmonization in various styles, transposition, and improvisation. An additional fee associated with this course. Prerequisite: [MUS 2113](#) or consent of instructor.

Offered upon sufficient request

MUS 3161 Functional Keyboard Skills II

One hour

A continuation of skills in reading chord charts, harmonization in various styles, transposition, improvisation, and open-score reading. An additional fee associated with this course. Prerequisite: [MUS 3151](#) or consent of instructor.

Offered upon sufficient request

MUS 3201 Introduction to World Music

One hour

Overview of music of various world cultures studied in relation to religion including jazz, folk, and pop influences.

Offered upon sufficient request

MUS 3213, 3223 History of Music I, II

Each course, three hours

The first course surveys the historical development of music from the pre-Christian era to 1750. The second covers music from 1750 to the present. Both courses include a major research-analysis project.

Prerequisite: [MUS 1203](#).

3213 offered fall semester (even-numbered years)

3223 offered spring semester (odd-numbered years)

MUS 3232 Contemporary Worship Music in Theory and Practice

Two hours

An integrated study of music theory with an emphasis on emerging pop symbols and popular and jazz harmonies used in current worship music. The creation of worship charts, lead sheets, chord substitution, simplified hymn harmonization, segues, intros, outros, turnarounds, and arranging are studied in detail.

Prerequisites: MUS 2111 and MUS 2113.

Offered spring semester (even-numbered years)

MUS 3241 Musicianship III

One hour

A course developing the aural skills of singing at sight and taking dictation. Musical materials representative of chromatic harmony of the common practice period and selected modern styles. Two hours laboratory per week. Prerequisite: [MUS 2111](#).

Offered spring semester

MUS 3243 Theory III

Three hours

A study of the practices of modern composers (beginning with Debussy), with emphasis on analytical skills and creative writing in selected styles. Prerequisite: [MUS 2113](#).

Offered spring semester

MUS 3301 Choral Techniques

One hour

A study of rehearsal techniques, including auditions, choral diction and tone, stylistic analysis, as well as score study, programming of repertoire, and organization and management. Prerequisite: [MUS 3243](#) or consent of instructor.

Offered fall semester (even-numbered years)

MUS 3313 Public School Music Methods, K-6

Three hours

Methods and materials of teaching music in elementary/middle schools, including the development of lesson plans, classroom observations, and role-playing a music teaching situation. Field experiences required. For Music majors only. (Same as [MUS 3323](#).) Prerequisites: [MUS 2111](#) and [2113](#).

Offered spring semester (odd-numbered years)

MUS 3323 Children's Music Ministry Methods

Three hours

Study of current and traditional philosophies, methods, and materials for use with preschool through sixth-grade church choirs. Field observations required. (Same as [MUS 3313](#).) Prerequisite: [MUS 1113](#) or consent of instructor.

Offered spring semester (odd-numbered years)

MUS 3411 Conducting I

One hour

Basic conducting patterns and techniques; score-reading, both choral and instrumental; study and preparation of graded choral music. Class meets two days per week. Prerequisites: [MUS 1111](#) and [1113](#) or consent of instructor.

Offered fall semester

MUS 3421 Conducting II

One hour

Advanced conducting techniques, score preparation, and interpretation. Emphasis on conducting assigned selections, the study of advanced choral works, and stylistic interpretation. Class meets two days per week. Prerequisite: [MUS 3411](#) or consent of instructor.

Offered spring semester (even-numbered years)

MUS 3501 Writing for the Church

One hour

An upper-division course designed to expose students to a broad spectrum of congregational song and liturgical resources while also teaching them to create and write new congregational hymns, songs, prayers, and responsive corporate readings. Prerequisites or corequisites: [MUS 2513](#) and [EGL 1023](#).

Offered fall semester (even-numbered years)

MUS 3563 Audio Technology I

Three hours

Introduction to multi-track recording, recording studios, and the technology involved in mixing and processing sound. Related subjects in setting up sound reinforcement systems, proper selection of microphones, and establishing the proper mix and sound quality. Also includes subjects such as acoustics, surround sound installation and set-up, digital audio workstations, and copyright law. An additional fee associated with this course.

Offered fall semester

MUS 3601 Music Practicum: Accompanying

One hour

Student accompanies voice students at their lessons and rehearsals, musical theatre workshop rehearsals, or other accompaniment opportunities with the consent of the instructor. Prerequisite: [MUS 2601](#) or consent of instructor.

Offered each semester

MUS 3611 Music Practicum: Church Organist

One hour

Student assumes the position of organist for a local church in the region and prepares and presents all organ music needed for the worship services of the church, which may include hymns, service music, choral anthem accompaniments, and solo voluntaries (prelude, offertory, communion music, and postlude).

Prerequisite: consent of instructor.

Offered each semester

MUS 3621 Music Practicum: Student Conductor

One hour

Selected specifically by the conductor of an ensemble, a student is given opportunity to serve in various capacities, such as section leader, performance music librarian, rehearsal conductor, and if appropriate, assistant conductor in performances. Assigned duties are tailored to offer practical experience in all aspects of choral and/or instrumental performance. Prerequisites: [MUS 3421](#) and consent of instructor.

Offered each semester

MUS 3651 Music Practicum: Chapel Leader

One hour

Student serves the Chapel Program in a variety of capacities including participating with the music teams, attending planning meetings and rehearsals, assisting with overall set-up and programming, and evaluating the services. Student reports directly to the Instructor of Worship Arts. Prerequisites: [MUS 2513](#), and consent of instructor.

Offered each semester

MUS 3661 Music Practicum: Technology

One hour

Student serves as sound technician in a church, JBU chapel, recording studio, audio post-production facility, radio station, etc. Prerequisite: [MUS 3563](#) or consent of instructor.

Offered each semester

MUS 3801 Cathedral Choir

One hour

The Cathedral Choir, open to students from all fields of study, performs standard collegiate choral literature of the various style periods. It is featured in the annual Christmas Candlelight Service and takes an annual tour during spring break. Admission by audition. May be repeated each semester. A not-for-credit option is available.

Offered each semester

MUS 3851 The Red Steps

One hour

This ensemble exists to serve the University by leading worship at schools and churches throughout the country for the purpose of recruitment, marketing and overall encouragement to the body of Christ. This ensemble may also play a broader repertoire of music at coffee shops, bookstores, and churches for special events sponsored by the Admissions Department or area schools. This ensemble is filled through an invitation only audition and includes a small stipend. A not-for-credit option is available.

Offered each semester

MUS 3900 Junior Recital

No credit

Presentation of a recital during the junior year. Must be enrolled in applied lessons in the area of performance during the semester of the recital. The student must write program notes and present them prior to the hearing for approval by the applied teacher (and/or other members of the department at the discretion of the applied teacher). The first draft of the program notes should be presented in full to the applied professor two weeks before the scheduled hearing. The hearing must be held at least two weeks before the scheduled performance. An additional fee associated with this course.

Offered each semester

MUS 4103 Music Arranging with MIDI

Three hours

Projects in transcription (adapting music composed for one musical medium to a different medium), music arrangements (free treatment of pre-existing material), and composition utilizing MIDI keyboards and sequencing software. Special emphasis on creative writing in a variety of styles. An additional fee associated with this course. Prerequisite: consent of instructor.

Offered spring semester

MUS 4113 Harmonic Form and Analysis

Three hours

A study of the structure of the standard homophonic forms through analysis of 18th, 19th, and 20th century literature and a brief introduction to contrapuntal procedures. This course also includes a major research-analysis project. Prerequisites or corequisites: [MUS 1203](#) and [3243](#).

Offered fall semester (odd-numbered years)

MUS 4123 Counterpoint

Three hours

Exercises in analysis and writing of two- and three-part counterpoint in 18th century style. Prerequisites: [MUS 4113](#) and consent of instructor.

Offered upon sufficient request

MUS 4191 Senior Presentation Preparation

One hour

Course designed to provide faculty mentoring for students enrolled in MUS 4910 Senior Presentation or MUS 4920 Senior Presentation in Worship Arts. An additional fee associated with course. Corequisite: [MUS 4910](#) or [4920](#).

Offered each semester

MUS 4261 Piano Pedagogy

One hour

An overview of pedagogical trends, historical practices, methods, and contemporary issues in piano teaching. Prerequisite: consent of instructor.

Offered upon sufficient request

MUS 4262 Piano Literature

Two hours

A chronological survey of keyboard and piano literature from the 18th century to the present. Prerequisite: consent of instructor.

Offered upon sufficient request

MUS 4273 Organ Literature and Pedagogy

Three hours

A brief chronological survey of literature for the organ from the Renaissance to the present. Basic pedagogical source materials are included. Prerequisite: consent of instructor.

Offered upon sufficient request

MUS 4281 Vocal Literature

One hour

A survey of vocal song literature and analysis and comparison of styles of representative works. Prerequisite or corequisite: [MUS 3223](#) or consent of instructor.

Offered spring semester (even-numbered years)

MUS 4291 Choral Literature

One hour

A brief chronological study of choral literature from the Renaissance to the present. Prerequisite: consent of instructor.

Offered upon sufficient request

MUS 4382 Vocal Pedagogy

Two hours

A study of vocal anatomy and pedagogical approaches as applied to the teaching of voice. Prerequisite: consent of instructor.

Offered spring semester (even-numbered years)

MUS 4491, 4492, 4493 Selected Topics

One to three hours

Study of a topic such as Twentieth Century Styles or Composition. A one-hour private lesson fee is charged per credit hour.

Offering dependent upon student interest and faculty availability

MUS 4553 Internship in Worship Arts

Three hours

An internship under the guidance of an experienced and qualified minister of music in an approved church music program. Prerequisite: consent of Worship Arts major advisor.

Offered each semester

MUS 4563 Audio Technology II

Three hours

Advanced topics from Audio Technology I including multi-track recording, processing sound, final mix-down and use of a digital studio workstation for master CD preparation. Includes study of microphone design, speaker design, acoustical environment and its selection for establishing the proper sound environment/mix quality. Includes class time in subjects such as sampling via MIDI, integration of video

and sound tracks, and location recording. An additional fee associated with this course. Prerequisite: [MUS 3563](#).

Offered spring semester

MUS 4573 Public School Music Methods, 7-12

Three hours

Contemporary methodology for teaching music in middle/junior and senior high schools, including philosophy of music education, psychology of music learning, curriculum development, classroom management, and evaluation. Field experiences and/or observations are required. Prerequisite: [MUS 3313](#).

Offered upon sufficient request

MUS 4900 Senior Recital

No credit

Presentation of a recital during the academic year preceding graduation. Must be enrolled in applied lessons in the area of performance during the semester of the recital. The student must write program notes and present them prior to the hearing for approval by the applied teacher (and/or other members of the department at the discretion of the applied teacher). The first draft of the program notes should be presented in full to the applied professor two weeks before the scheduled hearing. The hearing must be held at least two weeks before the scheduled performance. An additional fee associated with this course.

Offered each semester

MUS 4910 Senior Presentation

No credit

Presentation of a project representing significant research and/or creative endeavor during the academic year preceding graduation. Projects must be approved by the department head, division chair, and faculty mentor. Program notes must be written to accompany the presentation. These notes must be approved by and submitted to the faculty mentor prior to the presentation hearing. Hearing must be held at least two weeks before the scheduled presentation. An additional fee associated with this course. Prerequisites or corequisites: [MUS 4113](#), [3213](#), and [3223](#). Corequisite: [MUS 4191](#).

Offered each semester

MUS 4920 Senior Presentation in Worship Arts

No credit

Presentation of a corporate worship service demonstrating musical, pastoral, and leadership skills gained over the student's academic career. The student is responsible for assembling a team of people to help execute the planned service (musicians, speakers, other artists). Presentation must be approved by the department chair, and faculty mentor. Liturgical notes must be written to accompany the presentation. These notes must be approved by and submitted to the faculty mentor prior to the presentation hearing. Hearing must be held at least two weeks before the scheduled presentation. An additional fee associated with this course. Prerequisite: [MUS 2513](#). Prerequisite or corequisite: [MUS 4191](#).

Offered each semester

Nursing (NUR) Courses

NUR 1022 Concepts in Community Health & Wellness

Two hours

Explores the personal application of individual lifestyle choices and examines the protective and predictive factors that affect physical, psychosocial, and spiritual health. Christian beliefs are used to frame, enhance, and promote the benefits of healthy choices for a lifetime of optimal functional health, wellness, and disease prevention. Introduces concepts of community/public health, including epidemiology and biostatistics. Includes a teaching/learning service project. Meets the Wellness requirement of the Core Curriculum.

Offered fall semester

NUR 2113 Overview of Professional Nursing

Three hours

Provides an introduction to the discipline of professional nursing. Students examine their values and beliefs in relation to the concepts, tenets, and behaviors essential to the nursing profession and safe nursing practice. Students learn the individual thinking skills and strategies needed to engage in clinical reasoning and decision making.

Offered fall semester

NUR 2134 Informatics, Inquiry, & Evidence-Based Practice

Four hours

A study of technologies and information systems used by professional nurses in various healthcare settings. Emphasizes the use of these systems to improve safety and quality outcomes. This course also includes an overview of the research process through a comparative analysis of selected studies exemplifying various theoretical, methodological, and analytical approaches. Students acquire the basic competencies to critically read, evaluate, and interpret nursing research studies for their appropriateness while investigating various practice-based problems. Prerequisites: [NUR 2113](#). Prerequisite or corequisite: [MTH 2003](#), [MTH 2103](#), or [PSY 2383](#)

Offered spring semester

NUR 3112 Pharmacology 1

Two hours

First course in a two-semester sequence that provides students the theoretical basis for planning safe, effective, and patient-centered care that reflects an understanding of pharmacology. Also focuses on safety and quality improvement related to pharmacological interventions. Prerequisite: admission into the nursing major. Corequisite: [NUR 3115](#).

Offered fall semester

NUR 3114 Pathophysiology

Four hours

Provides the foundation for understanding alterations and adaptations in physiological processes in humans across the lifespan that occur due to disease, stress, environmental changes, and genetics. Builds upon the student's knowledge from the physical sciences. The content selected for study is essential to clinical reasoning and judgment and for understanding the rationale for preventive and therapeutic interventions in illness-related phenomena. Prerequisites: admission into the Nursing major, [BIO 2514](#) and [BIO 2524](#), each with a grade of "B" or higher.

Offered fall semester

NUR 3115 Foundations of Professional Nursing Practice

Five hours

Application of foundational health care and nursing concepts using selected exemplars. Emphasis is placed on socializing the student as an active, developing professional within the context and dimensions of the discipline. Clinical experiences within the community hospital and other selected community agencies emphasize development of psychomotor skills and clinical reasoning in the beginning nurse and continuity of care across settings. Three classroom hours per week and a total of 80 simulation and/or clinical hours. Prerequisite: admission into the nursing major. Corequisites: [NUR 3112](#), [3124](#) and Lab.

Offered fall semester

NUR 3124 Health Assessment & Therapeutic Interventions

Four hours

Using the nursing process, students learn to assess the physical, psychological, social, and spiritual dimensions of patients. Assessment skills are adjusted according to the patient's developmental level. The skills of interviewing and physical assessment are developed to assist students in making clinical judgments. The course also incorporates selected foundational nursing knowledge and interventions, including documentation utilizing informatics. Three classroom hours per week and a total of 40 laboratory hours. An additional fee is associated with this course. Prerequisite: admission into the nursing major. Corequisite: [NUR 3115](#) and Lab.

Offered fall semester

NUR 3222 Pharmacology 2

Two hours

Second course in a two-semester sequence. Uses the nursing process to introduce how the professional nurse approaches medication administration using developmentally and culturally appropriate approaches. Explores the use of and relationships between Complementary and Alternative Medicine, nutrition, and pharmaceuticals. Students encounter increasingly complex dosage calculations, and nursing responsibility and accountability for safe medication administration are reinforced and emphasized. Prerequisites: [NUR 3112](#). Corequisite: [NUR 3228](#).

Offered spring semester

NUR 3228 Concepts of Professional Nursing 1

Eight hours

Expanding nursing concepts and exemplars to further develop and emphasize professional nursing practice. Concepts and exemplars are applied to patients with multiple, non-complex functional problems across the lifespan and patients with mental health conditions. Students will engage in patient care in a variety of healthcare settings. Four classroom hours per week and a total of 160 simulation and/or clinical hours. An additional fee is associated with this course. Prerequisites: [NUR 3114](#), [3124](#), and [3115](#). Corequisite: [NUR 3222](#) and Lab.

Offered spring semester

NUR 3338 Concepts of Professional Nursing 2

Eight hours

Continued application of nursing concepts and exemplars within professional nursing practice. This eight-week summer course provides classroom theory and simulation experiences and engages the student in a variety of unique clinical experiences including camps for persons across the lifespan with disabilities or caring for individuals, families, and communities during a global mission experience. Equates to five classroom hours per week and a total of 120 simulation and/or clinical hours. An additional fee is associated with this course. Prerequisite: [NUR 3228](#).

Offered summer

NUR 4108 Concepts of Professional Nursing 3

Eight hours

Application of more advanced professional nursing concepts for patients across the lifespan with complex or complicated conditions. Also introduces students to the care of maternal/newborn dyads. Clinical experiences focus on application of nursing management practices and apply clinical reasoning and psychomotor skills to the care of patients in a variety of healthcare settings. Four classroom hours per week and a total of 160 simulation and/or clinical hours. An additional fee is associated with this course.

Prerequisite: [NUR 3338](#). Corequisite: [NUR 4214](#).

Offered fall semester

NUR 4110 Capstone in Nursing

Ten hours

The clinical portion of this course is a precepted field experience designed to aid the student into transition to practice and stresses the acquisition of the professional nurse identity. Students care for patients with complex health care issues in acute care settings. Students plan for future, ongoing personal and professional development. Seminars focus on collaboration and problem-solving as students examine issues encountered in the healthcare setting. Must be taken in the final semester of the program of study.

Two classroom hours per week, guided study for NCLEX-RN preparation and portfolio development, and 245 total hours of simulation and clinical experiences. An additional fee is associated with this course.

Prerequisite: [NUR 4108](#).

Offered spring semester

NUR 4214 Concepts of Nursing Leadership

Four hours

Expands upon the theories and principles of leadership and professional nursing practice within the healthcare system. Focuses on the skills and characteristics needed to lead professional nursing practice in complex healthcare environments. Social issues, economic policy, and regulatory requirements are used to explore healthcare delivery systems and access, quality improvement, and patient safety initiatives.

Includes strategies for monitoring delivery of care, outcomes, and evaluating effectiveness of nursing care.

Considers the perspectives of leadership, organization, and change theories. Corequisite: [NUR 4108](#).

Offered fall semester

Physics (PHY) Courses

PHY 1101, 2101, 3101, 4101 Physics Practicum

Each course, one hour

Experiences may involve teaching physics, radioisotope technology, electronics, atomic and nuclear physics, and sound and acoustics. Prerequisite: consent of instructor.

Offered upon sufficient request

PHY 1114 Fundamentals of Physics I

Four hours

An introductory study of the principles of Newtonian mechanics, vibrations, waves, and sound. Primarily for Biology, Construction Management, and Kinesiology majors. Three hours lecture-discussion and one two-hour laboratory period per week. Meets the Physical Science requirement of the Core Curriculum.

Prerequisite(s): minimum ACT math score of 24, or SAT math score of at least 580, or [MTH 1113](#) and [MTH 1122](#).

Offered fall semester

PHY 1124 Fundamentals of Physics II

Four hours

An introductory study of the principles of thermodynamics, electricity and magnetism, and optics. Primarily for Biology, Construction Management, and Kinesiology majors. Three hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisite: [PHY 1114](#).

Offered spring semester

PHY 2114 General Physics I

Four hours

A study of the principles of Newtonian mechanics, vibrations, fluids, waves, and sound. Primarily for Biochemistry, Chemistry, and Engineering majors. Meets the Physical Science requirement of the Core Curriculum. Three hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisite: [MTH 1134](#).

Offered fall semester

PHY 2124 General Physics II

Four hours

A study of the principles of thermodynamics, electricity and magnetism, and optics. Primarily for Biochemistry, Chemistry, and Engineering majors. Three hours lecture-discussion and one two-hour laboratory per week. An additional fee associated with this course. Prerequisite: [PHY 2114](#).

Offered spring semester

PHY 3113 Thermal Sciences

Three hours

An introduction to the thermal sciences of mechanical engineering providing an overview of thermodynamics, fluid dynamics, and heat transfer. Three hours lecture-discussion per week (Same as [ME 3113](#)). Prerequisite: [MTH 1144](#). Prerequisite or corequisite: [PHY 2114](#).

Offered fall semester

PHY 3173 Selected Topics

Three hours

Topics chosen from the many branches of physics such as optics, acoustics, nuclear physics, relativity, quantum physics, astronomy, and theoretical physics. May be repeated for credit when content differs. Prerequisite: consent of instructor.

Offered upon sufficient request

PHY 3223 Thermodynamics

Three hours

A continuation from [ME 3113](#) or [PHY 3113](#) of the study of the laws of classical thermodynamics with a brief introduction to compressible flow. Energy conservation in closed and flowing systems. Application to power and refrigeration cycles. Three hours lecture-discussion per week. (Same as [ME 3223](#)). Prerequisites: [ME 3113](#) or [PHY 3113](#).

Offered spring semester

PHY 4123 Electromagnetics

Three hours

Application of Maxwell's equations to transmission lines, waveguides, and antennas. Include antenna design. Three hours lecture-discussion per week. (Same as [EE 4123](#)). Prerequisite: [EN 3413](#).

Offered spring semester

PHY 4221, 4222, 4223 Physics Research

One to three hours

Laboratory-based research projects in an area of Physics of interest to the student and supervising faculty. May be repeated for credit. An additional fee associated with this course. Prerequisite: consent of instructor.

Offered each semester

Political Science (POL) Courses

POL 2013 American Government

Three hours

A study of the origins, institutions, and policies of national, state, and local government in the United States. The course promotes better citizenship through understanding and appreciation of American self-government. A Biblical assessment of the various aspects of American government is offered.

Offered each semester

POL 2093 Honors: American Government

Three hours

A study of the origins, institutions, and policies of the national government in the United States, incorporating Biblical assessments of various facets of the American system of government. Students formulate their own political views as informed by the principles and practices presented in course readings and class discussion. The course promotes better citizenship through understanding and appreciation of American self-government. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered fall semester (even-numbered years)

POL 2163 Irish Politics and Society

Three hours

A study of contemporary political and social development in Ireland, with special attention given to the political-religious conflict in Northern Ireland. Focus is on the application of Christian principles of peacemaking to political and social conflict. Activities include academic course work, guest lectures by Irish political leaders, and visits to important political/social sites in Ireland.

Offered summer, [Irish Studies Program](#)

POL 2213 Comparative Politics

Three hours

A comparative study of major political systems focusing on the principles, institutions, and customs that constitute the various regimes of the world. Meets the Global Studies requirement of the Core Curriculum.

Offered fall semester (odd-numbered years)

POL 2473 Methods of Political Analysis

Three hours

This course introduces students to the logic and techniques of quantitative and qualitative analysis in political science. Special attention is given to survey research, computer applications and data analysis (using SPSSX).

Offered fall semester (odd-numbered years)

POL 3003 Political Philosophy

Three hours

A study of ancient and modern political philosophies, utilizing primary texts. The course addresses the place of political philosophy in the broader field of philosophy, emphasizing a worldview approach as a means of understanding human existence. Topics include nature, reason, freedom, justice, political rights, property, law, religion, will, passions, power, customs, and community. (Same as [RPH 3013](#).) Meets the Philosophy requirement of the Core Curriculum. Prerequisites: [EGL 1023](#) and [HST 1013](#) or [1023](#) (or [Honors counterparts](#)).

Offered each semester

POL 3093 Honors: Political Philosophy

Three hours

A study of ancient and modern political philosophies that incorporates Biblical assessments of political themes and Christian critiques of classical and modern political thought. Students formulate their own political views as informed by the principles and practices presented in course readings and class discussion. (Same as [RPH 3093](#).) Meets the Philosophy requirement of the Core Curriculum. Prerequisites: [EGL 1023](#) and [HST 1013](#) or [1023](#) (or [Honors counterparts](#)), and admission to the Honors Program or permission of the Honors Committee.

Offered spring semester (even-numbered years)

POL 3133 Politics of Social Policy

Three hours

An examination of the origin, logic, structure, and function of America's social welfare state. Areas explored include income support, poverty and welfare, social security, health care, and affirmative action. Particular emphasis is placed upon evaluating the competing goals of social policy from a Christian perspective. Students will learn how to apply their faith to matters of public policy.

Offered fall semester (even-numbered years)

POL 3143 The American Presidency

Three hours

A study of the American presidency focusing on its origin, development, and modern practice. The executive branch is examined in the context of its relationship to the other two branches of the national government and its general role in the federal constitution. Prerequisite: [POL 2013](#) (or [Honors counterpart](#)).

Offered spring semester (even-numbered years)

POL 3213 Faith and Politics

Three hours

A study of the relationship between faith and politics with particular attention devoted to understanding the role of Christians in the democratic process. Specific topics discussed include the normative role of faith and politics, religion and political behavior, religion and the Constitution, and the historical and current role of religious individuals and organization in the public square.

Offered fall semester (even-numbered years)

POL 3353 International Relations

Three hours

An examination of the development of international relations and international organizations and how Christians have responded to the issues of war and peace. Prerequisites: [HST 1013](#) or [1023](#), and [POL 2013](#) (or [Honors counterparts](#)).

Offered fall semester (odd-numbered years)

POL 3411, 3412, 3413 Selected Topics

One to three hours

Special topics in Political Science are considered.

Offered upon sufficient request

POL 3423 Selected Topics in American Politics

Three hours

This course considers a range of contemporary topics related to American politics and society. Topics may include, but not be limited to gender and society, poverty, race relations, immigration, sex slavery, human rights, health care, etc. Prerequisite: [POL 2013](#) (or [Honors counterpart](#)).

Offered spring semester (odd-numbered years)

POL 4113 Latin American Politics

Three hours

A study of the constitutional development of Central and South American nations, with special attention given to the political principles and practices of contemporary Latin America. Prerequisite: [POL 2213](#) or [3353](#); [POL 2473](#) recommended.

Offered upon sufficient request

POL 4243 Constitutional Law

Three hours

A seminar on the origin, development, and contemporary practice of American constitutionalism as expressed through interpretations of the U.S. Constitution by the U.S. Supreme Court. Topics addressed include the institutional structure of federal government, checks and balances, federalism, the commerce power, the Bill of Rights, and the Fourteenth Amendment. Prerequisites: [POL 2013](#) (or [Honors counterpart](#)) and junior standing or consent of instructor.

Offered fall semester (even-numbered years)

POL 4313 Christianity and the Law

Three hours

An examination of how Christian principles have influenced law in the West, both historically and in the present day. Students will also gain insights into how faith can be integrated into their legal or political careers, be it in advocacy, law, or other areas of social and/or public service. Prerequisites: junior standing.

Offered spring semester (odd-numbered years)

POL 4613 Research Seminar

Three hours

An introduction to methods of political research, philosophies of political science, and the relationship between the study of political science and a Christian worldview. Students research a particular topic in U.S. politics. Prerequisites: [POL 2473](#) and nine additional hours of [Political Science](#).

Offered spring semester (even-numbered years)

POL 4711, 4712, 4713 Internship

One to three hours

Fieldwork in politics or law combined with reading and writing assignments that explore the theory and practice of these fields. One credit hour is earned for each 45 hours of experience. Prerequisite: consent of supervising instructor.

Offered upon sufficient request

Psychology (PSY) Courses

PSY 1013 Introductory Psychology

Three hours

The scientific study of human behavior and mental processes including the brain and behavior, consciousness, learning and memory, development, sociocultural processes, emotions, stress and health responses, psychopathology, and treatment methods in psychological science. Students are introduced to theory, research, and practice as the foundations of modern psychology. Meets the Social Science requirement of the Core Curriculum.

Offered each semester

PSY 1093 Honors: Introductory Psychology

Three hours

A scientific study of the principles underlying animal and human behavior, focusing on the development of psychology in relation to other academic disciplines. Critical thinking and integrative themes are stressed by using in-class exercises and formal projects. Meets the Social Science requirement of the Core Curriculum. Prerequisite: admission to the Honors Program or permission of the Honors Committee.

Offered fall semester

PSY 1101 Orientation to Psychology

One hour

Designed to help students develop the knowledge and skills that will enable them to make intelligent choices about their future in the discipline. Topics for discussion include the changing nature of psychology, departmental resources and goals, career development, and graduate school. Not required of majors who upon matriculation to JBU have completed more than 12 transferable hours in psychology.

Offered fall semester

PSY 2123 Psychology of Relationship Development

Three hours

A foundation course that integrates Biblical and psychological literature in the area of interpersonal, marriage, and family relationships. Course work includes analysis and application of current theory and psychological research on gender differences, family of origin issues, sexuality, personality types,

communication styles, forgiveness, dating, and emotional intelligence. This course may not be audited.
(Same as [FAM 2123](#).)

Offered spring semester

PSY 2233 Theories of Counseling

Three hours

A study of major counseling theories. Includes dynamic, existential, humanistic, gestalt, cognitive-behavioral, reality, and family systems theories of counseling and the most useful strategies from each. For the beginning student of counseling. Prerequisite: [PSY 1013](#).

Offered fall semester

PSY 2243 Introduction to Therapeutic Interviewing

Three hours

Basic elements of interviewing, setting conditions for psychological growth, and the development of effective action plans for healthy psychological change. Prerequisite: [PSY 1013](#).

Offered spring semester

PSY 2383 Statistics for the Behavioral Sciences

Three hours

A study of the essential statistical techniques needed to analyze experimental data and understand current research publications with applications in the social and behavioral sciences. Topics include graphing, descriptive statistics, inferential statistics and hypothesis testing (using correlation, regression, t-tests, ANOVA, and chi square). Extensive use of statistical software for both calculation and enhancing conceptual understanding and critical thinking. Meets the Mathematics requirement of the Core Curriculum. Prerequisites: [PSY 1013](#) and either an ACT Math score of at least 19, or a minimum SAT score of 480, or [MTH 0153](#).

Offered each semester

PSY 2393 Research Methods

Three hours

An introduction to research methods in psychology that stresses critical thinking about methodological issues. Research skills are developed in hypothesis construction, research design, interpretation of statistical results, scientific writing, library and internet research, and presentation of results to a professional audience. Prerequisite: [PSY 1013](#). Prerequisite or corequisite: [PSY 2383](#).

Offered each semester

PSY 2413 Developmental Psychology

Three hours

A study of the physical, cognitive, emotional, and social development of the human from conception through adulthood. Meets the Social Science requirement of the Core Curriculum. (Same as [FAM 2413](#).) Prerequisite: [PSY 1013](#).

Offered each semester

PSY 3203 Psychological Testing

Three hours

An examination of the theory, interpretation, and appropriate use of individual and group tests of personality, mental ability, aptitude, achievement, and interest. Prerequisite: [PSY 2383](#).

Offered upon sufficient request

PSY 3303 Theories of Personality

Three hours

A study of the development, organization, and dynamics of personality with references to theories of personality developed in the 20th century. This course examines personality theory through a focus on key concepts, techniques of practice, application, and critical evaluation of each framework. The application of personality theories in clinical and testing settings will also be explored. Prerequisite: [PSY 1013](#).

Offered spring semester

PSY 3333 Sport and Exercise Psychology

Three hours

The study of the psychological processes which underlie involvement in sport and exercise activities. Focus will be given to issues of performance, motivation and aggression, interventions in sport, team and spectator factors, and socialization in sport, among others. An elective course which may be substituted for the Selected Topics course. (Same as [KIN 3333](#).) Prerequisite: [PSY 1013](#).

Offered spring semester (even-numbered years)

PSY 3411, 3412, 3413 Selected Topics

One to three hours

Topics chosen from a variety of subjects such as the Psychology of Genius and Creativity, the Psychology and History of the Holocaust, and Psychology of Humor, among other specialty areas. May be repeated for credit when a different topic is studied. Prerequisite or corequisite: [PSY 1013](#).

Offered fall semester

Offered spring semester (odd-numbered years)

PSY 3423 Social Psychology

Three hours

An investigation of how the behavior, feelings and thoughts of an individual are influenced or determined by the behavior and characteristics of others. Topics for discussion include attraction, attitudes, aggression, persuasion, and group behavior. Prerequisite: [PSY 1013](#).

Offered spring semester

PSY 3493 Research Seminar

Three hours

An opportunity for students to develop research skills in a content area with the goal of completing and presenting an empirical research project. Members of the class also produce the departmental online undergraduate research journal. Prerequisite: [PSY 2393](#).

Offered fall semester

PSY 4213 Abnormal Psychology

Three hours

The nature, causes, and treatment of maladaptive behavior including personality disorders, psychoses, reactions to stress, anxiety disorders, and other dysfunctions. Includes a review of diagnostic techniques, biological and psychological therapies, preventive programs and other strategies of intervention. Prerequisite: [PSY 1013](#); [PSY 2233](#) recommended.

Offered fall semester

PSY 4262, 4263 Field Experience

Two to three hours

Placement in a variety of off-campus settings to gain practical exposure to the professional field. Open to Psychology majors. May be repeated once for credit with consent of instructor. A student may receive a letter grade for a maximum of 3 credit hours; any additional hours will be graded 'S' or 'U'. Students must supply transportation to the field placement sites. Prerequisite: [PSY 2233](#); [PSY 2243](#) recommended.

Offered fall semester

PSY 4333 Cognitive Psychology

Three hours

A study of major theories, research methods, and empirical findings of cognitive psychology, including attention, memory, imagery, categorization, language, and problem solving. Prerequisite: [PSY 2393](#).

Offered spring semester (even-numbered years)

PSY 4343 Theories of Learning

Three hours

A study of the major theories, research methods, and empirical findings of animal and human learning. Classical and operant conditioning paradigms are emphasized. Prerequisite: [PSY 2393](#).

Offered spring semester (odd-numbered years)

PSY 4353 Behavioral Neuroscience

Three hours

A study of the biological bases of behavior. Topics for consideration include neuroanatomy, neuropsychology, learning and memory, emotion, drug effects, and the biological correlates of mental disorders. Prerequisite: [PSY 1013](#); [PSY 2393](#) strongly recommended.

Offered fall semester

PSY 4411, 4412, 4413 Independent Research in Psychology

One to three hours

Student-directed research supervised by a member of the psychology faculty. Prerequisites: [PSY 3493](#) and consent of a supervising instructor.

Offered upon sufficient request

PSY 4493 Seminar in Psychology

Three hours

An integrated capstone course emphasizing the application of Christian thought to the study and practice of contemporary psychology. Special emphasis is given to the selection of topics in psychological science which present unique challenges in the task of integration for students. Prerequisites: [PSY 2393](#), six hours of [BBL](#), and junior standing.

Renewable Energy (RE) Courses

RE 2121 Practicum in Renewable Energy

One hour

A brief survey of the renewable energy technologies and an introduction to field testing of power performance using measurement instrumentation. Students will design and fabricate energy systems based on photovoltaic, solar thermal, wind, or biomass energy conversion. An additional fee associated with this course.

Offered fall semester

RE 2213 Renewable Energy Thermal Fluids Introduction

Three hours

An exploration of the scientific principles of thermal energy conversions. Course includes economic, environmental, and institutional aspects, and possible energy storage solution. The energy conversion technologies include solar thermal collection, concentrated solar power, geothermal power, and ocean thermal power. An additional fee associated with this course. Prerequisites: [EN 1223](#) and [1323](#).

Offered fall semester

RE 3123 Bio-fuels and Biomass

Three hours

Introduction to power production from different biomass resources. Topics include: bio-energy sources (agricultural crops and organic wastes), combustion of solid biomass, production of gaseous and liquid fuels from biomass, environmental benefits and economic impacts of biomass conversion. An additional fee associated with this course. Prerequisite: [CHM 2154](#).

Offered fall semester

RE 3153 Mechanical Issues of Wind Engineering

Three hours

An introduction to wind energy conversion systems from a mechanical engineering perspective. Main topics include wind resource assessment, aerodynamics and dynamics applied to wind turbine, and economics of wind projects. In lab sessions, students will learn to utilize computational fluid dynamics software to design wind turbines and predict the output power. An additional fee associated with this course. Prerequisites: [CS 1113](#) and [MTH 2123](#).

Offered spring semester

RE 3173 Renewable Energy/Electric Power Engineering

Three hours

An introductory course to renewable energy (RE) power systems. This course focuses on photovoltaics (PV) and wind power systems and introduces quantitative analysis methodologies and software for estimating the output electric power of RE systems. Laboratory sessions are included. Topics include off-grid and grid-connected PV/wind power systems, energy efficiency, energy storage, microgrids, and smart grids. Prerequisites: [CS 1113](#) and [EE 2223](#).

Offered fall semester

RE 4124 Renewable Energy Capstone

Four hours

This is a project-based course done under the supervision of a faculty member. The student develops a feasibility study for a renewable energy project for a specific site. They apply all the methods and know-how acquired during their classes and present their case study in a formal presentation or poster session. An additional fee associated with this course. Prerequisites: [RE 3123](#), [3153](#), and [3173](#).

Offered spring semester

Religion & Philosophy (RPH) Courses

RPH 2323 Logic

Three hours

An introduction to considering and evaluating arguments. Topics include formal and informal fallacies, syllogisms, truth tables, and statement or propositional logic. The course can include an introduction to predicate logic as well.

Offered fall semester (even-numbered years)

RPH 3003 Introduction to Philosophy

Three hours

A survey of the main areas of philosophy, including metaphysics, epistemology, ethics, and philosophy of religion. Students should develop their critical reading skills, their ability to analyze difficult but rewarding philosophical texts, and their ability to advance a single, clear argument on philosophical issues.

Additionally, students should become more comfortable speaking about philosophical problems and concerns, and they should know more about the relationship between the Christian faith and contemporary philosophy. Meets the Philosophy requirement of the Core Curriculum. Prerequisites: [EGL 1023](#), and [HST 1013](#) or [1023](#) (or [Honors counterparts](#)).

Offered each semester

RPH 3013 Political Philosophy

Three hours

A study of ancient and modern political philosophy utilizing primary texts. The course addresses the place of political philosophy in the broader field of philosophy, emphasizing a worldview approach as a means of understanding human existence. Topics include nature, reason, freedom, justice, right, property, law, religion, will, passions, power, customs, and community. (Same as [POL 3003](#).) Prerequisites: [EGL 1023](#) and [HST 1013](#) or [1023](#) (or [Honors Counterparts](#)).

Offered each semester

RPH 3093 Honors: Political Philosophy

Three hours

A study of ancient and modern political philosophies that incorporates biblical assessments of political themes and Christian critiques of classical and modern political thought. Students formulate their own political views as informed by the principles and practices presented in course readings and class discussion. (Same as [POL 3093](#).) Prerequisites: [EGL 1023](#) and [HST 1013](#) or [1023](#) (or [Honors counterparts](#)) and admission to the Honors Program or permission of the Honors Committee.

Offered spring semester (even-numbered years)

RPH 3323 Philosophy of the Christian Faith

Three hours

An advanced study of major issues in a Christian approach to philosophy. The course often centers around the works of a major Christian philosopher as a basis for discussion and evaluation. Prerequisite or corequisite: [RPH 3003](#).

Offered each semester

RPH 3343 Ancient & Medieval Philosophy

Three hours

A survey of the development of the Western philosophical tradition, based on a close reading of primary texts, from the Presocratics to Ockham.

Offered spring semester (odd-numbered years)

RPH 3353 Modern Philosophy

Three hours

A survey of the development of the Western philosophical tradition, based on a close reading of primary texts, from Descartes to Nietzsche.

Offered spring semester (even-numbered years)

RPH 3533 Introduction to Islam

Three hours

An examination of the religion, history, and culture of Islam. The study traces the growth and development of Islamic traditions across time and place, looking in particular at how Muslims understand their own faith tradition in relation to broader human experience expressed in literature and the arts. Focus is on primary sources. Meets the Global Studies requirement of the Core Curriculum. Prerequisite: junior standing or consent of instructor.

Offered spring semester (even-numbered years)

RPH 3543 Introduction to Hinduism and Buddhism

Three hours

An examination of the "Eastern" religious traditions of Hinduism and Buddhism. The survey includes historical aspects-following the growth and development of these religious traditions across time and place, as well as theological aspects-considering how each tradition approaches issues such as divinity, nature, humanity, salvation, sin, community, and ritual. Focus is on primary sources. Meets the Global Studies requirement of the Core Curriculum. Prerequisite: junior standing or consent of instructor.

Offered spring semester (odd-numbered years)

RPH 4423 Ethics

Three hours

A comprehensive and critical study of morality. Topics can include metaethics, normative ethics, or applied ethics. Prerequisite: [RPH 3003](#) or [POL 3003](#) or [RPH 3013](#).

Offered each semester

RPH 4433 Philosophy of Religion

Three hours

An introduction to a major topic in the philosophy of religion, e.g. arguments for and against the existence of God, the problem of evil, or the relationship between God and morality. Students should be able to give an adequate defense of the Christian faith by the end of the semester. (Same as [BBL 4433](#).) Prerequisite or corequisite: [RPH 3003](#) or [POL 3003](#) or [RPH 3013](#).

Offered fall semester (odd-numbered years)

RPH 4481, 4482, 4483 Selected Topics

One to three hours

Topics are chosen from some area within religion and philosophy and may include a close reading of a major religious or philosophical work, e.g., Nicomachean Ethics or the Koran; a thorough study of a major figure in religion or philosophy, e.g., Martin Luther or Descartes; a select topic in religion or philosophy, e.g., metaphysics; or an issue, e.g., just war theory. The student may also do an independent study and research under the supervision of an instructor. Prerequisite: consent of instructor.

Offered upon sufficient request

Social Studies (SST) Courses

SST 1113 Introduction to Sociology

Three hours

Understanding sociological research and how to apply it to aid in developing a global perspective of today's world. Topics of emphasis include the individual and society, structures of power, and social institutions common to all cultures and societies. The sociology of the body-health and illness, sexuality, and aging-is also discussed. Meets the Social Science requirement of the Core Curriculum.

Offered online, upon sufficient request

SST 1133 Cultural Geography

Three hours

Use of cartographic media as a means of communication. Instruction in techniques of interpretation of such media. Meets state requirements for elementary and secondary teachers. Meets the Global Studies requirement of the Core Curriculum.

Offered fall semester

SST 1143 World Regional Geography

Three hours

General survey of world regions including a study of geographic factors which underlie strengths of world powers. Meets state requirements for elementary and secondary teachers. Meets the Global Studies requirement of the Core Curriculum.

Offered spring semester

Theatre (THE) Courses

THE 1112 Freshman Theatre Workshop

Two hours

A study of the technical and theoretical aspects of theatre arts by means of participation in a stage production. This class will be specifically geared to incoming freshman. An additional fee associated with this course. A not-for-credit option is available. Audition required.

Offered fall semester

THE 2113 Basic Acting

Three hours

This course develops an understanding and appreciation of the art of acting, and establishes the basic elements of the actors' craft through the exploration of the three basic tools of the performer: imagination, voice, and body movement. This class includes the study of acting principles and stage techniques through the use of theatre games, improvisation, and scene performances.

Offered fall semester (even-numbered years)

THE 2121, 2122 Practicum in Theatre Production

One to two hours

45 Hours of production assistance per credit hour in preparing and producing a theatre production. Students will work under the direct supervision of the director of the theatre production. A not-for-credit option is available. May be repeated for credit when content differs. Prerequisite: instructor consent.

Offered each semester

THE 3113 Theatre Workshop

Three hours

A study of the technical and theoretical aspects of theatre arts by means of participation in a stage production. An additional fee associated with this course. A not-for-credit option also available. Audition required.

Offered spring semester

THE 4483 Selected Topics in Theatre Studies

Three hours

Intensive study in a topic in theatre, such as set design, stage makeup, directing, costume design, or technical production. A capstone project related to the field of study will be required. May be repeated for credit when content differs. Prerequisite: [THE 2113](#) or consent of instructor.

Offered fall semester (odd-numbered years)

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Ph.D., Trinity Evangelical Divinity School

M.Div., Erskine Seminary

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A.B., Dartmouth College

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M.Div., Southwestern Baptist Theological Seminary

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M.A., B.S., John Brown University

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Ed.D. Texas Tech University

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B.S., John Brown University

ABBEY G. WHITE, Assistant Professor of Counseling Psychology, 2014
Ph.D., M.A., Louisiana Tech University
B.S., Indiana University

PAUL H. WHITLEY, Assistant Professor of Music, 2011.
D. Mus., Northwestern University
M.M., New England Conservatory
B.M., Wheaton College

JESSICA H. WILSON, Associate Professor of Creative Writing, 2013.
Ph.D., Baylor University
M.E., University of Dallas
B.A., Pepperdine University

BARRY J. WINGFIELD, Director, Little Rock CARE Clinic; Associate Professor of Marriage and Family Therapy, 2014.
Ph.D., University of Louisiana
M.S., Texas A&M University
B.A., Harding University

JUDY K. WINSLETT, Assistant Professor of Graduate Counseling, 2016.
E.S.D., Harding University
M.S., John Brown University
B.A., Northeastern State University

JAN HELMUT WUBBENA, Professor of Music, 1977.
Fellow of the American Guild of Organists
D.Mus.A., M.Mus., University of Colorado
A.B., Lebanon Valley College

TERESA R. WUBBENA, Professor of Music, 1976.

M.A., B.Mus.Ed., Sam Houston State University

JIN XU, Assistant Professor of Engineering, 2013.

Ph.D., Iowa State University

Ph.D., B.S., Nanjing University of Aeronautics and Astronautics, China

Note: All administration and faculty listings are effective July 1, 2016.

Faculty Emeriti

IDA M. ADOLPHSON, Ed.D., Psychology, 1973 - 1993

JACK AUGUSTINE, Ed.D., Health Promotion and Human Performance, 1985 - 1997

DONALD P. BALLA, M.S., J.D., Accounting, 1985 - 2014

A. LeVON BALZER, Ph.D., Administration, 1994 - 2004

LINDA L. BECKMAN, D.Mus.A., Music, 1996 - 2011

ANDREW C. BOWLING, Ph.D., Biblical Studies, 1969 - 1999

M. LISA BRANDOM, Ed.D., English, 1984 - 2006

HARRIET J. BRICKER, M.Ed., Education, 2008 - 2013

WILLIAM H. BURNSIDE, Ph.D., History, 1969 - 1990

G. ROBERT BURNS, Ed.D., Health and Sport, 1975 - 2006

DOYLE M. BUTTS, Ph.D., Economics, 1971 - 2012

ROBBIE F. CASTLEMAN, D.Min., Biblical Studies, 2001 - 2016

DAVID A. CATER, Ph.D., Psychology, 1993 - 2012

GLENNA BELLE DAVIS, Ed.D., Health Promotion and Human Performance, 1964 - 1994

KENT DAVIS, Ph.D., Construction Management, 1969 - 1975, 1977 - 2004

MICHAEL T. FLYNN, M.A., Broadcasting, 1977 - 1999

MEL R. FRATZKE, P.E.D., Administration, 1997 - 2001

KENNETH W. FRENCH, Ph.D., Mechanical Engineering, 1971 - 2009

GARY M. GUINN, Ph.D., English, 1977 - 2012

ROBERT R. GUSTAVSON, Ph.D., Kinesiology, Head Soccer Coach, 1980 - 2009

MARY E. HABERMAS, M.L.S., Library, 1994 - 2015

JOHN C. HILL, M.A., Adult Education and Administration, 1978 - 2012

MICHAEL D. KENNELLEY, Ph.D., Business, 2000 - 2015

PAUL G. KIMBALL, M.B.A., Business, 1981 - 1999

EDWARD C. KLOTZ III, D. Miss., Intercultural Studies, 1996 - 2014

THOMAS R. LAMBORN, Ed.D., Education, 2003 - 2015

FRED P. LOLLAR, M.A., Journalism, 1984 - 1992

CAROLE A. MAINES, Ph.D., Counselor Education, 1995 - 2012

ARNOLD C. MAYER, M.Ed., Communication and Adult Education, 1989 - 2007

JOHN B. McCULLOUGH, M.S., Business, 1974 - 2015

LEE T. NETHERTON, Ph.D., Chemistry, 1969 - 2005

RICHARD L. NISWONGER, Ph.D., History and Biblical Studies, 1964 - 1969, 1970 - 1997
PAT R. O'BRIEN, Ph.D., Business, 2004 - 2014
LARRY O'KELLEY, M.A., Sociology, 1967 - 1994
JAMES V. PEARSON, Ph.D., Engineering, 1959 - 1962, 1963 - 2002
N. EDWARD RENFROW, Ed.D., Health and Sport, 1981 - 2004
LINDA G. ROMIG, Ed.D., Education, 1985 - 2007
RICHARD L. RUBLE, Ph.D., Th.D., Biblical Studies, Psychology, and Administration, 1964-1999
LEO SETIAN, Ph.D., Electrical Engineering, 1970 - 2012
LARRY G. SEWARD, Ed.D. Biology, 1970 - 2007
JOHN E. SHEEHY, M.A., Men's Basketball Coach, 1989 - 2007
DON W. SIEMENS, Ph.D., Mathematics, 1984 - 2012
MARION SNIDER, B.S., Administration, 1940 - 1985
SHIRLEY FORBES THOMAS, Ph.D., English, Honors, and Administration, 1969 - 2001
SANDRA S. VAN THIEL, Ph.D., Education, 1974-1976, 1981 - 2013
JAMES C. WALTERS, D.Min., Biblical Studies, 1968 - 2003
K. GARY WARNER, M.S., Journalism, 1993 - 2010
GILBERT B. WEAVER, Th.D., Biblical Studies, 1960 - 1969, 1972 - 1999
RAYMOND T. WEST, JR., M.S., Computer Science and Administration, 1987 – 2016
CHARLES D. WILLIS, B.Arch., Building Construction, 1946 - 1986
JACQUELINE S. WRIGHT, M.Ed., Administration, 2006 – 2014
JOE M. ZIMMERMAN, Ph.D., Music, 1956-1960, 1961 - 1966, 1967 - 1969, 1971 – 1996