

George Fox University

Undergraduate Programs

2019-20



GEORGE FOX
UNIVERSITY

Be Known

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2019-2020 Undergraduate Programs

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Notes about use of catalogs

These catalogs are provided for guidance in course selection and program planning. While every effort is made to ensure the accuracy of the information in this catalog, in no sense is it to be considered a binding contract, and it may be changed by action of appropriate bodies within the university.

Courses listed in these catalogs are subject to change through normal academic process. New courses and changes in existing course work are initiated by the appropriate school, department, or program, and approved by the Office of Academic Affairs and the university faculty. Changes to the curriculum are published on this website and in the schedule of classes.

Undergraduate Curriculum

Degrees Offered

To complete an undergraduate academic program at George Fox University, a student must select a major to pursue one of two general degrees (the bachelor of arts or the bachelor of science) or the professional degrees (the bachelor of science in athletic training or the bachelor of social work). A course of study includes three basic components: general education, the major field, and supporting and/or elective courses. Minor fields are optional and are composed of elective courses that have been packaged for identification of a vocational purpose or an interest.

Catalog Requirements

Students are subject to the program requirements of the catalog under which they enter the university (i.e., semester of matriculation). Students who must be readmitted following withdrawal are subject to the program requirements of the catalog under which they reenter. Readmitted students must meet any new or revised graduation requirements as listed in the catalog at the time of readmission.

General Education

- # # General Education Program
Honors Program (Alternative General Education)

Majors and Minors

- # # Major and Minor Requirements
Major/Degree and Minors Offered

Graduation

- # Graduation Requirements

Bachelors (BA) in Arts Administration and Visual Culture

Overview

The Arts Administration and Visual Culture program immerses students in the whole art ecology, including the cultural environment in which art and arts organizations operate; the role of artists in society; how artwork is documented, presented and interpreted; the structure and management of organizations that display artwork -- both nonprofit and for-profit; and the role of art theorists, critics, curators, and collectors.

The program curriculum considers how education in arts organizations expands knowledge and builds audiences, the increasing role of art in urban development and public spaces, and new approaches and tools for encouraging access and participation. A strong emphasis is placed on acquiring the theoretical and practical tools for fundraising, financial management, marketing, and knowledge of new media and technology in the visual arts.

Faculty

The versatile faculty is made up of artists and designers who actively produce and exhibit their creative work - artists who are leaders in their various fields of discipline. They love to teach because they love what they teach. Our faculty is equipped to motivate, inspire and nurture; they become true mentors to their students. The faculty of the Department of Art and Design believe it is necessary for students to become leaders rather than followers, to become the next generation of gifted creative artists and designers and to become art professionals in the ever-growing number of contemporary art and art-related careers.

More information about the arts administration and visual culture major can be found on the art major admissions page.

Program Objectives

Graduates with a BA in Arts Administration and Visual Culture will:

- Demonstrate the ability to write and speak about art, design, and art history with clarity and logic, and be able to form and support critical judgements about art, design and art history
- Demonstrate the technical mastery of the relevant materials and tools, and the terminology, theories, and practices relevant to the student's field of study
- Demonstrate the ability generate, support, and utilize individual thoughts and ideas
- Demonstrate the ability to do research in art, design, and art history, and the competence and knowledge to analyze and think critically
- Demonstrate expanding knowledge of historical achievements and contemporary thinking, trends, processes, and issues in art and design, and apply that knowledge to their personal work
- Demonstrate broader and deeper understanding of contemporary arts practice, grasp of how to develop and maintain studio or design practice, and ideas

communicating successful cultivation of both audience, concept and goals in visual art and design

Major Requirements

Art Core (12 hours)

Complete the following:

ARTS 111 Drawing I 3 hours
ARTS 217 Art History Survey from 1450 3 hours
ARTS 460 Art And Christ 3 hours

Choose one of the following:

ARTS 101 Basic Design 2-D 3 hours
ARTS 102 Basic Design 3-D 3 hours

Professional Networking Requirement (5 hours)

Complete the following:

ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 305 Art & Design Professional Networking Seminar 1 hour
ARTS 305 Art & Design Professional Networking Seminar 1 hour

Arts Administration Requirements (24 hours)

Complete the following:

ARTS 216 Art History Survey to 1450 3 hours
ARTS 220 Arts Administration I 3 hours
ARTS 276 Arts Administration Practicum 3 hours
ARTS 320 Arts Administration II 3 hours
ARTS 355 Topics in Art History 3 hours
ARTS 355 Topics in Art History 3 hours
ARTS 382 Twentieth-Century Art 3 hours
ARTS 384 Contemporary Art Forms 3 hours

Note: Topics required for ARTS 355

- Women in Art History
- any non-Western

Studio Elective (9 hours)

Complete 9 hours of ARTS 2XX Studio Elective coursework.

Required Electives (9 hours)

Choose three of the following:

BUSN 303 Planning Your Financial Future 3 hours
COMM 240 Introduction to Public Relations 3 hours

COMM 270 Introduction to Organizational Communication 3 hours
HIST 393 Introduction to Public History 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours
WRIT 310 Professional Writing 3 hours

Bachelors (BA) in Accounting

Overview

This major offers a 72-semester-hour course of study, enabling students to acquire the necessary technical and professional skills for successful careers in public, managerial or governmental accounting. Like other majors in the Department of Business and Economics, it requires completion of a general business core, as well as specialized courses. Students are required to obtain a minimum grade of C- in all major courses. Field experiences and internships are strongly encouraged.

Faculty will work with students on an individual basis to prepare them for the national certified public accounting examination. The broad educational experience provided by George Fox University should enable an accounting major the flexibility to design his or her own program.

Program Objectives

Graduates with a BA in accounting will:

- Be a technically competent accountant
- Develop and enhance students' ethical decision-making ability and demonstrate the ability to integrate a biblical worldview in the accounting profession
- Engage in experiential learning opportunities where students can integrate technical knowledge and professional acumen
- Evaluate the pressures, benefits and challenges of the globalization of accounting

Major Requirements

Business Core (42 hours)

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours
ACCT 272 Principles of Managerial Accounting 3 hours
BUSN 110 Introduction to Business 3 hours
BUSN 120 Personal Finance 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
BUSN 360 Business Law 3 hours
BUSN 486 Strategic Management 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
FINC 260 Business Finance 3 hours
GBSN 300 Global Business 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Accounting Core (30 hours)

Complete the following:

CSIS 201 Intro to Computer Science 3 hours
ACCT 350 Taxation 3 hours
ACCT 370 Accounting Information Systems 3 hours
ACCT 371 Financial Accounting and Reporting I 3 hours
ACCT 372 Financial Accounting and Reporting II 3 hours
ACCT 373 Financial Accounting and Reporting III 3 hours
ACCT 450 Advanced Analytics in Accounting 3 hours
ACCT 471 Advanced Accounting 3 hours
ACCT 472 Auditing 3 hours
ACCT 480 Business Taxation 3 hours

Student are encouraged to choose the following electives to enhance their major.

ACCT 405 Volunteer Tax Assistance 1 hour
ACCT 475 Field Experience 1-8 hours
ACCT 485 Selected Topics 3 hours

Bachelors (BS) in Applied Science

Overview

This major offers a 60-semester-hour course of study, enabling students to pursue engineering in a discipline other than those currently offered at George Fox University. This dual-degree 3/2 program is offered for students interested in pursuing engineering in a discipline such as chemical*, environmental or aerospace engineering.

Students attend George Fox for three years, taking most of their general education, mathematics, science and lower-division engineering courses. They may then qualify to transfer to any other engineering school where they spend two more years completing their engineering degree. Students completing this five-year program will receive two bachelor of science degrees: a degree in applied science from George Fox University after their fourth year, and a degree in engineering from the cooperating engineering school after their fifth year.

Program Objectives

Graduates with a BS in applied science will:

- Apply knowledge of mathematics, science, and applied sciences to their work
- Design and conduct experiments and analyze and interpret data
- Design systems, processes and programs to meet specified needs of the discipline
- Function effectively on multidisciplinary teams
- Identify and solve applied science problems using the techniques, skills and modern scientific tools necessary for professional practice
- Understand and act according to the field's professional and ethical standards
- Communicate effectively
- Use their broad education to impact solutions in global and societal contexts
- Understand contemporary issues in the field

Major Requirements

Core requirements

Complete the following:

CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours
ENGE 250 Electrical Circuit Analysis 4 hours
ENGM 211 Statics 3 hours
ENGM 212 Dynamics 3 hours
ENGM 311 Engineering Thermodynamics 3 hours
ENGR 151 Engineering Principles I 3 hours
ENGR 152 Engineering Principles II 3 hours
ENGR 250 Principles of Materials Science 3 hours
MATH 201 Calculus I 4 hours
MATH 202 Calculus II 4 hours
MATH 301 Calculus III 3 hours

MATH 311 Differential Equations with Linear Algebra 4 hours

PHYS 211 General Physics with Calculus 4 hours

PHYS 212 General Physics with Calculus 4 hours

Electives

Choose at least 3-semester hours from the following:

ENGE 220 Digital Logic Design 4 hours

ENGE 311 Electronic Devices and Circuits 4 hours

ENGE 330 Electrical Signals and Networks 3 hours

ENGM 312 Applications of Engineering Thermodynamics 2 hours

ENGM 320 Mechanics of Materials 3 hours

ENGM 330 Fluid Mechanics 3 hours

Choose at least 6-semester hours from the following:

MATH 312 Numerical Methods 3 hours

MATH 331 Probability 3 hours

MATH 411 Advanced Linear Algebra 3 hours

Additional Requirements

Students must transfer 12 additional semester hours in engineering courses from the cooperating engineering school.

The remainder of the engineering curriculum will be taken in two years at the cooperating engineering school. For a complete list of required courses, consult the engineering advisor or CAP Coach in the IDEA Center.

*It is strongly recommended that students interested in pursuing the 3/2 option in chemical engineering also enroll in CHEM 331 Organic Chemistry (4), CHEM 332 Organic Chemistry (4), CHEM 440 Thermodynamics (4) and CHEM 450 Quantum Chemistry (3) during their three years at George Fox University.

Bachelors (BA) in Biblical Studies

Overview

The biblical studies major offers a 37- or 38-semester-hour course of study designed to provide students a good foundation for some church ministries, work with youth and parachurch organizations, teach Bible in Christian school settings, and pursue graduate work in Bible and theology. The student who majors in Bible will acquire an in-depth working knowledge of Scripture, its backgrounds, and methods of interpretation. Students are required to obtain a minimum grade of C- in all courses taken for the major. A minimum of 18 semester hours must be from upper-division courses (including at least 6 semester hours at the 400 level).

Program Objectives

Graduates with a BA in biblical studies will:

- Demonstrate seminary-ready (beginner–intermediate) competency in classical Biblical Hebrew at a first-year level or New Testament Greek at a second-year level
- Explain the historical-social circumstances of the books within both the Hebrew Bible/Old Testament and the Christian New Testament
- Create a scholarly argument that incorporates a historical and theological perspective as well as the students' knowledge of Hebrew or Greek
- Articulate basic content knowledge of the Christian Bible and explain how biblical concepts, theories and skills interact with the content of disciplines outside of biblical studies

Major Requirements

Core requirements (9 hours)

Complete the following:

BIBL 290 Biblical Interpretation 3 hours

BIBL 490 Biblical Theology 3 hours

RELI 380 Christian Beliefs 3 hours

Biblical Language (8 hours)

Choose 8 hours of the same biblical language (201 and 202) from the following:

GREK 201 Hellenistic Greek I 4 hours

GREK 202 Hellenistic Greek II 4 hours

HEBR 201 Introduction to Biblical Hebrew I 4 hours

HEBR 202 Introduction to Biblical Hebrew II 4 hours

Christian Ministries (2-3 hours)

Choose one of the following:

CHMN 320 Relational Bible Teaching 3 hours

CHMN 420 Speaking as Ministry 3 hours

Electives (18 hours)

Choose 18 hours of BIBL courses

Exceptions:

- BIBL 100 Bible Survey (4) may not be applied to the major
- One semester of BIBL 101 Literature of the Old Testament (3) or BIBL 102 Literature of the New Testament (3) may be applied as biblical studies credit
- GREK 301/302 Hellenistic Greek III and IV may be applied as biblical studies credit
- No more than 2 semester hours in BIBL 495 Special Study may count toward major requirements

Bachelors (BA) in Interdisciplinary Studies: Biblical Studies

Overview

An interdisciplinary studies major may be elected through application and approval of the religious studies faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. An interdisciplinary studies major in biblical studies consists of 48 semester hours – 24 hours as specified below and 24 hours in another major field.

Major Requirements

Biblical Studies (12 hours)

Complete the following:

BIBL Biblical studies coursework 12 hours

Christian Ministries (3 hours)

Choose one of the following:

CHMN 360 Perspectives in Christian Education 3 hours

CHMN 390 Theological Foundations of Christian Ministry 3 hours

Religion (6 hours)

Complete the following:

RELI 380 Christian Beliefs 3 hours

RELI Religious studies coursework 3 hours

Philosophy (3 hours)

Complete the following:

PHIL Philosophy Elective Coursework 3 hours

Bachelors (BS) in Biochemistry

Overview

The biochemistry major offers a 66-semester-hour course of study. The major is designed for students who plan to enter a variety of careers, including teaching, chemical and biochemical research, environmental chemistry, forensic science, pharmacy, graduate school and medicine. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BS in biochemistry will:

- Demonstrate fundamental principles and applications in the major sub-disciplines of chemistry
- Critically analyze a breadth of chemical problems and experimental results
- Execute chemical experiments utilizing modern methods, instrumentation, computer applications, and the scientific method of investigation
- Properly utilize chemical information systems
- Communicate technical material effectively both orally and in writing

Major Requirements

Chemistry, Biology, and Biochemistry Requirements (43 hours)

Complete the following:

BIOL 211 General Biology I 4 hours
BIOL 212 General Biology II 4 hours
CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours
CHEM 310 Analytical Chemistry 4 hours
CHEM 331 Organic Chemistry I 4 hours
CHEM 332 Organic Chemistry II 4 hours
CHEM 341 Biochemistry I 4 hours
CHEM 342 Biochemistry II 4 hours
CHEM 440 Thermodynamics 4 hours
CHEM 461 Chemistry Seminar 1 hour
CHEM 462 Experimental Chemistry 2 hours

Mathematics Requirements (8 hours)

Complete the following:

MATH 201 Calculus I 4 hours
MATH 202 Calculus II 4 hours

Physics Requirements (8 hours)

Choose one of the following sequences:

PHYS 201 General Physics 4 hours

PHYS 202 General Physics 4 hours

OR

PHYS 211 General Physics with Calculus 4 hours

PHYS 212 General Physics with Calculus 4 hours

Chemistry and Biology Electives (7 hours)

Choose one of the following:

BIOL 350 Genetics 4 hours

BIOL 410 Molecular Biology 4 hours

BIOL 420 Cell Biology 4 hours

Choose one of the following:

CHEM 320 Advanced Inorganic Chemistry 3 hours

CHEM 380 Advanced Organic Chemistry 3 hours

CHEM 450 Quantum Chemistry 3 hours

Thesis Option

Philosophy: The opportunity to pursue a chemistry thesis is an honor. Consequently, the thesis option will be noted on a student's transcript. The thesis is designed to enhance a student's preparation for graduate or professional school. The heart of the thesis is original research conducted under the guidance of a chemistry faculty member.

Eligibility: The thesis option may be pursued by any chemistry major in good academic standing. Students wishing to pursue a thesis must:

1. Consult with their research advisor about an acceptable research project.
2. In writing, notify the chemistry thesis committee (composed of the chemistry department faculty) of their intention to conduct research. The thesis committee must receive notification by the end of the fall semester of the student's junior year.

After the beginning of the spring semester of a student's junior year, students must petition the department thesis committee for permission to pursue thesis research. Students who pursue the thesis option must:

1. Enroll in at least 1 hour of Chemical Research (CHEM 465) each semester, beginning the spring semester of their junior year, through the spring semester of their senior year.
2. Submit the first copy of a written thesis to the thesis committee by April 1 of their senior year. The final, edited copy is due to the thesis committee the last day of classes during the spring semester.
3. Prepare a poster and give an oral presentation of their research.

In some cases, students may apply research conducted off campus to the CHEM 465 requirement. Students who participate in off-campus research programs may petition

the thesis committee for special consideration of the thesis option. The thesis committee must receive the petition by the beginning of the fall semester of the student's senior year. The thesis committee may elect to substitute the off-campus experience for a portion of the CHEM 465 requirement.

Bachelors (BS) in Biology

Overview

This major offers a 53- or 54-semester-hour course of study, enabling students to pursue a variety of careers that include research, the health professions, teaching and non-science fields that require critical-thinking skills. Requirements for the biology major consist of 10 semester hours in core biology courses, 20 hours in chemistry and mathematics, and 24 hours of biology courses based on a selected concentration. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BS in biology will:

- Understand, interpret and communicate scientific information
- Demonstrate a broad understanding of field biology, biodiversity, systems-level biology and cell/molecular biology
- Understand the basic forms of scientific inquiry
- Evaluate the compatibility of science and faith in their worldview

Major Requirements

Core requirements (29-30 hours)

Biology (10 hours)

Complete the following:

BIOL 211 General Biology I 4 hours
BIOL 212 General Biology II 4 hours
BIOL 490 Biological Exploration 2 hours

Chemistry (16 hours)

Complete the following:

CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours
CHEM 331 Organic Chemistry I 4 hours
CHEM 332 Organic Chemistry II 4 hours

Mathematics (3 to 4 hours)

Choose one of the following:

CSIS 201 Intro to Computer Science 3 hours
MATH 201 Calculus I 4 hours
MATH 240 Statistical Procedures 3 hours

Concentrations (24 hours) - choose one

General

Courses listed in two areas under the General Concentration may meet requirements for both areas of emphasis. (For example, if BIOL 390 is taken to meet the field studies requirement then it may also fulfill the diversity emphasis as well.)

Choose one of the following field studies courses:

BIOL 360 Ecology 4 hours
BIOL 380 Ornithology 4 hours
BIOL 390 Plant Biology 4 hours
BIOL 460 Invertebrate Zoology 4 hours

Choose one of the following diversity courses:

BIOL 322 Comparative Vertebrate Anatomy 4 hours
BIOL 370 Microbiology 4 hours
BIOL 380 Ornithology 4 hours
BIOL 390 Plant Biology 4 hours
BIOL 460 Invertebrate Zoology 4 hours

Choose one of the following form/function courses:

BIOL 310 Developmental Biology 4 hours
BIOL 322 Comparative Vertebrate Anatomy 4 hours
BIOL 333 Advanced Physiology 4 hours
BIOL 335 Neuroscience 4 hours
BIOL 340 Plant Physiology 4 hours
BIOL 450 Advanced Human Anatomy 4 hours

Choose one of the following cell/molecular courses:

BIOL 335 Neuroscience 4 hours
BIOL 350 Genetics 4 hours
BIOL 370 Microbiology 4 hours
BIOL 410 Molecular Biology 4 hours
BIOL 420 Cell Biology 4 hours

Electives

BIOL electives 300-level or above 8-12 hours

Cell and Molecular Biology

Complete the following:

BIOL 350 Genetics 4 hours
BIOL 370 Microbiology 4 hours
BIOL 410 Molecular Biology 4 hours

BIOL 420 Cell Biology 4 hours

Choose one of the following:

BIOL 310 Developmental Biology 4 hours

BIOL 322 Comparative Vertebrate Anatomy 4 hours

BIOL 333 Advanced Physiology 4 hours

BIOL 335 Neuroscience 4 hours

Choose one of the following:

BIOL 360 Ecology 4 hours

BIOL 380 Ornithology 4 hours

BIOL 390 Plant Biology 4 hours

BIOL 460 Invertebrate Zoology 4 hours

NOTE: Students are strongly encouraged to take both CHEM 341 and CHEM 342 Biochemistry (8)

System and Structural Biology

Complete the following:

BIOL 333 Advanced Physiology 4 hours

BIOL 420 Cell Biology 4 hours

Choose one of the following:

BIOL 322 Comparative Vertebrate Anatomy 4 hours

BIOL 450 Advanced Human Anatomy 4 hours

Choose one of the following:

BIOL 310 Developmental Biology 4 hours

BIOL 340 Plant Physiology 4 hours

Choose one of the following field studies courses:

BIOL 360 Ecology 4 hours

BIOL 380 Ornithology 4 hours

BIOL 390 Plant Biology 4 hours

BIOL 460 Invertebrate Zoology 4 hours

Choose one of the following cell/molecular courses:

BIOL 350 Genetics is *strongly recommended*

BIOL 335 Neuroscience 4 hours

BIOL 350 Genetics 4 hours

BIOL 370 Microbiology 4 hours

BIOL 410 Molecular Biology 4 hours

BIOL 420 Cell Biology 4 hours

Ecology and Field Biology

Complete the following:

BIOL 360 Ecology 4 hours

BIOL 322 Comparative Vertebrate Anatomy 4 hours

BIOL 350 Genetics 4 hours

Choose two of the following:

BIOL 333 Advanced Physiology 4 hours

BIOL 340 Plant Physiology 4 hours

BIOL 380 Ornithology 4 hours

BIOL 390 Plant Biology 4 hours

BIOL 460 Invertebrate Zoology 4 hours

Choose one of the following cell/molecular courses:

BIOL 335 Neuroscience 4 hours

BIOL 350 Genetics 4 hours

BIOL 370 Microbiology 4 hours

BIOL 410 Molecular Biology 4 hours

BIOL 420 Cell Biology 4 hours

Thesis Option

Students can petition the department thesis committee by the end of the fall semester of their junior year for permission to do original research as part of their degree requirement. Students allowed to pursue the thesis option must:

1. Complete an acceptable research proposal and the Research Methods course (BIOL 384) by the end of the spring semester of the junior year.
2. Take up to 4 hours of Biological Research (BIOL 465) between the spring semester of their junior year and graduation, and Senior Thesis (BIOL 496) during the spring semester of their senior year.
3. Complete a written thesis acceptable to the thesis committee by April 1 of their senior year.
4. Prepare a poster and give an oral presentation of their research prior to graduation.

The department considers this an honor to be noted on the student's transcript. The thesis is designed to enhance a student's preparation for graduate or professional school.

Bachelors (BA) in Biology

Overview

This major offers a 55- to 65-semester-hour course of study, enabling students to pursue a variety of careers that include research, the health professions, teaching and non-science fields that require critical-thinking skills. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Requirements for the BA in biology consist of 10 to 14 semester hours in core biology courses, 8 to 12 hours in chemistry, 3 hours in mathematics, 20 hours of biology electives, and 14 to 16 hours of courses based on a selected liberal arts emphasis.

Program Objectives

Graduates with a BA in biology will:

- Understand, interpret and communicate scientific information
- Demonstrate knowledge and competency of field biology, biodiversity, systems-level biology and cell/molecular biology
- Understand the basic forms of scientific inquiry
- Evaluate the compatibility of science and faith in their worldview

Major Requirements

Core requirements (41-49 hours)

Biology (10-14 hours)

Complete the following:

BIOL 490 Biological Exploration 2 hours

Choose one of the following sequences:

Sequence 1

BIOL 211 General Biology I 4 hours

BIOL 212 General Biology II 4 hours

Sequence 2

BIOL 211 General Biology I 4 hours

BIOL 221 Human Anatomy and Physiology I 4 hours

BIOL 222 Human Anatomy and Physiology II 4 hours

Chemistry (8-12 hours)

Choose one of the following sequences:

Sequence 1

CHEM 151 General, Organic, and Biochemistry 4 hours
CHEM 152 General, Organic, and Biochemistry 4 hours

Sequence 2

CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours
CHEM 331 Organic Chemistry I 4 hours

Mathematics (3 hours)

Complete the following:

MATH 180 College Algebra or above 3 hours
MATH 240 Statistics required if MATH GE requirement is waived.

Biology Electives (20 hours)

Complete the following:

Courses listed in two areas below may meet requirements for both areas of emphasis.
(For example, if BIOL 390 is taken to meet the field studies requirement then it may also fulfill the diversity emphasis as well.)

Choose one of the following field studies courses:

BIOL 360 Ecology 4 hours
BIOL 380 Ornithology 4 hours
BIOL 390 Plant Biology 4 hours
BIOL 460 Invertebrate Zoology 4 hours

Choose one of the following diversity courses:

BIOL 300 Evolution 2 hours
BIOL 322 Comparative Vertebrate Anatomy 4 hours
BIOL 367 Essentials of Microbiology 4 hours
BIOL 380 Ornithology 4 hours
BIOL 390 Plant Biology 4 hours
BIOL 460 Invertebrate Zoology 4 hours

Choose one of the following form/function courses:

BIOL 310 Developmental Biology 4 hours
BIOL 322 Comparative Vertebrate Anatomy 4 hours
BIOL 333 Advanced Physiology 4 hours
BIOL 335 Neuroscience 4 hours
BIOL 340 Plant Physiology 4 hours
BIOL 450 Advanced Human Anatomy 4 hours

Choose one of the following cell/molecular courses:

BIOL 335 Neuroscience 4 hours
BIOL 350 Genetics 4 hours
BIOL 367 Essentials of Microbiology 4 hours
BIOL 410 Molecular Biology 4 hours
BIOL 420 Cell Biology 4 hours

Upper-division BIOL electives

BIOL electives 300-level or above 4-9 hours

Liberal Arts Emphasis (14-16 hours) - choose one

Art (15 hours)

Complete the following:

ARTS 101 Basic Design 2-D 3 hours

Choose 12 hours of electives from the following:

ARTS 111 Drawing I 3 hours
ARTS 112 Drawing II 3 hours
ARTS 201 Beginning Painting 3 hours
ARTS 301 Intermediate Painting 3 hours
ARTS 401 Advanced Painting 3 hours
ARTS 221 Beginning Sculpture 3 hours
ARTS 321 Intermediate Sculpture 3 hours
ARTS 421 Advanced Sculpture 3 hours
ARTS 230 Beginning Photography 3 hours
ARTS 330 Intermediate Photography 3 hours
ARTS 430 Advanced Photography 3 hours
ARTD 220 Typography 3 hours
ARTD 250 Print and Packaging 3 hours
ARTS 475 Field Experience 3 hours

Global and Cultural Diversity (14-16 hours)

Option 1

Choose one of the following sequences:

French language sequence:

FREN 201 Intermediate French 4 hours
FREN 202 Intermediate French 4 hours
FREN 301 Intermediate/Advanced French 4 hours
FREN 302 Intermediate/Advanced French 4 hours

Spanish language sequence:

SPAN 201 Intermediate Spanish 4 hours
SPAN 202 Intermediate Spanish 4 hours
SPAN 301 Intermediate/Advanced Spanish 4 hours
SPAN 302 Advanced Spanish 4 hours

Option 2

Choose one of the following sequences:

French language sequence:

FREN 201 Intermediate French 4 hours
FREN 202 Intermediate French 4 hours

Spanish language sequence:

SPAN 201 Intermediate Spanish 4 hours
SPAN 202 Intermediate Spanish 4 hours

Choose 6-8 hours of Global/Cultural Understanding electives from the following:

COMM 410 Gender Comm Across Cultures 3 hours
ECON 370 International Economic Development 3 hours
ESLA 240 Adjunct Listening 3 hours
ESLA 250 Adjunct Reading 3 hours
ESLA 260 Academic Writing 5 hours
ESLA 280 Speech 3 hours
FREN 301 Intermediate/Advanced French 4 hours
FREN 302 Intermediate/Advanced French 4 hours
GEED 355 Cross-Cultural Experience - Domestic 2 hours
GEED 365 Cross-Cultural Experience - International 2 hours
INTL 200 Cultural Geography and Global Relations 3 hours
GEOG 200 Cultural Geography and Global Relations 3 hours
HIST 250 Latin America 3 hours
HIST 340 History of the Middle East 3 hours
HIST 343 History of Southern Africa 3 hours
HIST 360 Modern Russia 3 hours
HIST 370 Modern China and Japan 3 hours
HIST 380 The African-American Experience in the United States 3 hours
LITR 236 Ancient World Literature 3 hours
LITR 237 World Literature, Medieval to Modern 3 hours
LITR 238 Contemporary World Literature 3 hours
LITR 480 International Women's Voices 3 hours
MUSI 130 Music in World Cultures 2 hours
PSCI 230 Introduction to International Affairs 3 hours
INTL 230 Introduction to International Affairs 3 hours
PSCI 303 International Conflict and Peace 3 hours
INTL 303 International Conflict and Peace 3 hours

PSYC 353 Culture and Psychology 3 hours
RELI 330 Introduction to the World Christian Movement 3 hours
RELI 360 Cross-Cultural Christian Outreach 3 hours
RELI 440 World Religions 3 hours
SOC 310 Cultural Anthropology 3 hours
SOC 380 Race and Ethnicity 3 hours
SPAN 301 Intermediate/Advanced Spanish 4 hours
SPAN 302 Advanced Spanish 4 hours

English (15 hours)

Complete the following:

LITR electives 200-level or above 6 hours

Choose three of the following:

WRIT 210 Practical Grammar and Editing 3 hours
WRIT 230 Introduction to Journalism 3 hours
WRIT 250 Creative Nonfiction 3 hours
WRIT 310 Professional Writing 3 hours
WRIT 330 Magazine and Feature Writing 3 hours

Psychology (15-16 hours)

Complete the following:

PSYC 150 General Psychology 3 hours
PSYC 310 Lifespan Human Development 3 hours
PSYC elective courses 9-10 hours

Sociology (15 hours)

Complete the following:

SOCI 150 Principles of Sociology 3 hours
SOCI elective courses 12 hours

Other Academic Disciplines (15 hours)

Permission for this option should be sought before a significant amount of course work has been undertaken. The field should have a logical connection to biology.

Introductory course taken by majors in the field (3 hours)

Take 12 upper-division elective hours, as agreed upon by department chair of chosen discipline and biology department head. (12 hours)

Bachelors (BA) in Business Administration

Overview

This major offers a 48-semester-hour course of study, intended to engage students in developing the business knowledge and skills needed to be effective workers within a variety of businesses and industries. This includes for-profit and not-for-profit organizations. Like other majors in the Department of Business and Economics, it requires completion of a general business core, as well as two additional courses, as selected by the student. Students are required to obtain a minimum grade of C- in all major courses.

Students who major in the Business Administration major will not be permitted to double major in any other business discipline.

Program Objectives

Graduates with a BA in business administration will:

- Develop an understanding of the role of each of the primary business disciplines in today's organizations
- Communicate orally and in writing with effectiveness
- Understand the principles of effective leadership
- Demonstrate effective skill as a team member who serves both locally and globally
- Demonstrate the ability to identify ethical dilemmas and responsible courses of action

Major Requirements

Business Core (42 hours)

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours
ACCT 272 Principles of Managerial Accounting 3 hours
BUSN 110 Introduction to Business 3 hours
BUSN 120 Personal Finance 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
BUSN 360 Business Law 3 hours
BUSN 486 Strategic Management 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
FINC 260 Business Finance 3 hours
GBSN 300 Global Business 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Required Electives (6 hours)

Choose two of the following:

MGMT 300 Leading and Managing People 3 hours

MKTG 300 Consumer Behavior 3 hours

ENPR 300 Entrepreneurship I 3 hours

FINC 300 Intermediate Financial Management 3 hours

ARTD 240 Graphic Design/Visual Communication for Non-Majors 3 hours

Bachelors (BS) in Chemistry

Overview

The chemistry major offers a 55- or 56-semester-hour course of study. The major is designed for students who plan to enter a variety of careers, including teaching, chemical research, environmental chemistry, forensic science, pharmacy, graduate school and medicine. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BS in chemistry will:

- Understand the fundamental principles and applications in the major sub-disciplines of chemistry
- Critically analyze a breadth of chemical problems and experimental results
- Execute chemical experiments utilizing modern methods, instrumentation, computer applications, and the scientific method of investigation
- Properly utilize chemical information systems
- Communicate technical material effectively both orally and in writing

Major Requirements

Core requirements

Chemistry requirements (33 hours)

Complete the following:

CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours
CHEM 310 Analytical Chemistry 4 hours
CHEM 320 Advanced Inorganic Chemistry 3 hours
CHEM 331 Organic Chemistry I 4 hours
CHEM 332 Organic Chemistry II 4 hours
CHEM 440 Thermodynamics 4 hours
CHEM 450 Quantum Chemistry 3 hours
CHEM 461 Chemistry Seminar 1 hour
CHEM 462 Experimental Chemistry 2 hours

Mathematics (11 hours)

Complete the following:

MATH 201 Calculus I 4 hours
MATH 202 Calculus II 4 hours
MATH 301 Calculus III 3 hours

Physics (8 hours)

Choose one of the following sequences:

Sequence 1:

PHYS 201 General Physics 4 hours

PHYS 202 General Physics 4 hours

Sequence 2:

PHYS 211 General Physics with Calculus 4 hours

PHYS 212 General Physics with Calculus 4 hours

Electives (3-4 hours)

Choose one of the following:

CHEM 341 Biochemistry I 4 hours

CHEM 380 Advanced Organic Chemistry 3 hours

Thesis Option

Philosophy: The opportunity to pursue a chemistry thesis is an honor. Consequently, the thesis option will be noted on a student's transcript. The thesis is designed to enhance a student's preparation for graduate or professional school. The heart of the thesis is original research conducted under the guidance of a chemistry faculty member.

Eligibility: The thesis option may be pursued by any chemistry major in good academic standing. Students wishing to pursue a thesis must:

1. Consult with their research advisor about an acceptable research project.
2. In writing, notify the chemistry thesis committee (composed of the chemistry department faculty) of their intention to conduct research. The thesis committee must receive notification by the end of the fall semester of the student's junior year.

After the beginning of the spring semester of a student's junior year, students must petition the department thesis committee for permission to pursue thesis research. Students who pursue the thesis option must:

1. Enroll in at least 1 hour of Chemical Research (CHEM 465) each semester, beginning the spring semester of their junior year, through the spring semester of their senior year.
2. Submit the first copy of a written thesis to the thesis committee by April 1 of their senior year. The final, edited copy is due to the thesis committee the last day of classes during the spring semester.
3. Prepare a poster and give an oral presentation of their research.

In some cases, students may apply research conducted off campus to the CHEM 465 requirement. Students who participate in off-campus research programs may petition the thesis committee for special consideration of the thesis option. The thesis committee must receive the petition by the beginning of the fall semester of the student's senior year. The thesis committee may elect to substitute the off-campus experience for a portion of the CHEM 465 requirement.

Bachelors (BA) in Christian Ministries

Overview

The Christian ministries major offers a 46-semester-hour course of study designed to prepare students to enter Christian service in local churches and parachurch organizations, providing biblical and theological preparation and an excellent base for graduate studies in a wide variety of ministry fields. Typical careers are positions as pastors, missionaries, youth pastors and Christian education directors. Students are required to obtain a minimum grade of C- in all courses taken for the major. A minimum of 18 semester hours must be from upper-division courses. A limit of 4 semester hours of field experience may apply to the major.

Program Objectives

Graduates with a BA in Christian ministries will:

- Identify and describe orthodox Christian beliefs and doctrines.
- Explain the role and importance of cultural, historical, and theological contexts as they bear on Christian scholarship and ministry.
- Analyze current global theological developments and missional movements.
- Develop and model healthy relationships with oneself, the other and God.
- Utilize field experiences and internships to design meaningful ministry initiatives.

Major Requirements

Core requirements (30 hours)

Complete the following:

BIBL 290 Biblical Interpretation 3 hours
CHMN 130 Christian Discipling 3 hours
CHMN 341 World Christianity: Theology and Practice 3 hours
CHMN 360 Perspectives in Christian Education 3 hours
CHMN 390 Theological Foundations of Christian Ministry 3 hours
CHMN 420 Speaking as Ministry 3 hours
CHMN 441 Contemporary Issues of the Church 3 hours
RELI 350 Spiritual Formation 3 hours
RELI 380 Christian Beliefs 3 hours
RELI 440 World Religions 3 hours

Concentrations (16 hours) - choose one

Cross-Cultural Ministry (16 hours)

Complete the following:

CHMN 475 Field Experience 4 hours
COMM 420 Intercultural Communication 3 hours

RELI 330 Introduction to the World Christian Movement 3 hours

RELI 360 Cross-Cultural Christian Outreach 3 hours

RELI 460 Issues in Contemporary Missions 3 hours

Theology and Vocation (16 hours)

Complete the following:

CHMN 391 Theological Praxis I: Foundation of Self 3 hours

CHMN 392 Theological Praxis II: Christian Community 3 hours

CHMN 475 Field Experience 4 hours

CHMN 491 Theological Praxis III: Study of Theology 3 hours

CHMN 492 Theological Praxis IV: Critical Issues 3 hours

Youth Ministry (16 hours)

Complete the following:

CHMN 240 Youth Ministry: Youth Culture 2 hours

CHMN 241 Youth Ministry: Methods and Practice 2 hours

CHMN 330 Youth Ministry: Theology and Philosophy of Ministry 2 hours

CHMN 381 Counseling 3 hours

CHMN 475 Field Experience 4 hours

HHPE 380 Experiential Recreational Leadership 3 hours

Bachelors (BA) in Cinematic Arts

Overview

The Cinematic Arts major offers a 45-48 semester-hour course of study that combines the liberal arts emphasis of communication arts with hands-on experiences in video, film, digital media production, and animation. An extensive selection of electives allows the student to design a program that fits individual needs or interests.

Program Objectives

Graduates with a BA in Cinematic Arts will:

- Apply communication concepts and theories as related to cinema and media
- Apply their knowledge and skill to complete significant projects in digital media production
- Apply writing skill for media production, such as script writing
- Recognize and practice ethical behavior and communication in relation to cinema and media production

Major Requirements

Core requirements (21 hours)

Theory (9 hours)

Choose one of the following:

CINE 160 History of U.S. Cinema 3 hours

CINE 220 History of International Cinema 3 hours

Complete the following:

CINE 280 Film Theory and Criticism 3 hours

COMM 230 Mass Media and Popular Culture 3 hours

Production (12 hours)

Complete the following:

CINE 230 Introduction to Video Production 3 hours

CINE 243 Introduction to Audio 3 hours

CINE 490 Senior Portfolio 1 hour

Choose one of the following:

CINE 260 Scriptwriting For Media 3 hours

CINE 320 Dramatic Scriptwriting 3 hours

Complete one of the following options:

Students can complete 2 credits of CINE 475 Field Experience or 1 credit of CINE 475 and 1 credit of CINE 474 Corporate Video Production.

CINE 474 Corporate Video Production 1 hour

CINE 475 Field Experience 1-10 hours

Concentrations (24-27 hours) - choose one

Animation (27 hours)

Students in the animation concentration study techniques for producing 2D, 3D and stop motion animation and visual effects using a combination of creativity, aesthetics, and computer software.

Complete the following:

ARTD 110 Creative Suite 3 hours

ARTS 111 Drawing I 3 hours

CINE 210 Storyboarding and Concept Design 3 hours

CINE 212 Introduction to Animation 3 hours

CINE 214 2D Computer Animation 3 hours

CINE 312 3D Computer Animation I 3 hours

CINE 363 Motion Graphics and Visual Effects 3 hours

CINE 410 3D Computer Animation II 3 hours

CINE 481 Advanced Production Workshop I 3 hours

Suggested Electives (not required)

ARTS 230 Beginning Photography 3 hours

ARTS 311 Figure Drawing I 3 hours

ARTS 411 Figure Drawing II 3 hours

CINE 333 Camera and Lighting 3 hours

CINE 475 Field Experience 1-10 hours

CINE 482 Advanced Production Workshop II 3 hours

Audio Production (24 hours)

Students in the audio production concentration focus on audio techniques for music recording and mixing; sound design for film, video and new media and production for radio.

Complete the following:

CINE 343 Sound Design 3 hours

CINE 344 Studio Sound Recording 3 hours

CINE 350 Editing Video 3 hours

CINE 481 Advanced Production Workshop I 3 hours

Choose 12 hours of the following:

2-3 credits of CINE 475 can be applied to this requirement.

CINE 233 Contemporary Christian Songwriting and Producing 3 hours

CINE 475 Field Experience 1-10 hours

CINE 482 Advanced Production Workshop II 3 hours

MUSI 110 Understanding Jazz 2 hours

MUSI 180 Introduction to Music Technology 2 hours

THEA 330 Stage Lighting and Sound 3 hours

OR

Up to 15 semester hours of coursework at the Contemporary Music Center Program in Nashville.

Film and Video Production (24 hours)

The study of the moving image incorporates cinema history, media criticism and elements of hands-on film production.

Complete the following:

CINE 333 Camera and Lighting 3 hours

CINE 350 Editing Video 3 hours

CINE 481 Advanced Production Workshop I 3 hours

Choose 15 hours of the following:

Students must choose 15 hours of electives from CINE offerings, which may also include THEA 370 Directing for Theatre

CINE Elective Coursework

THEA 370 Directing for Theatre 3 hours

OR

Up to 15 semester hours of course work at the Los Angeles Film Studies Center

Film Studies (24 hours)

The study of the moving image incorporates cinema history, media criticism and elements of hands-on film production.

Choose one of the following:

Both courses must be taken, regardless of which fulfills the Theory Core requirement.

CINE 160 History of U.S. Cinema 3 hours

CINE 220 History of International Cinema 3 hours

Complete the following:

CINE 333 Camera and Lighting 3 hours

CINE 350 Editing Video 3 hours

Choose 15 hours of the following:

Students must choose 15 hours of electives from CINE and COMM offerings.

CINE Elective Coursework

COMM Elective Coursework

OR

Up to 15 semester hours of course work at the Los Angeles Film Studies Center

Bachelors (BS) in Cognitive Science

Overview

This major offers a 44-50-semester-hour course of study, students select from one of three concentrations. The major is an interdisciplinary study of the mind that draws on several disciplines to provide a broad foundation from which to understand and study mental processes. Students are provided flexibility within the major to explore that aspect of the mind that most interests them (e.g., psychological, physiological, philosophical, computational). Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

Psychology Core Requirements (19 hours)

Complete the following:

PSYC 150 General Psychology 3 hours
PSYC 240 Statistical Procedures 3 hours
PSYC 320 Neuroscience 3 hours
PSYC 370 Cognition 3 hours
PSYC 391 Research Methods 3 hours
PSYC 392 Advanced Research Methods 3 hours
PSYC 490 Senior Seminar 1 hour

Concentrations (25-31 hours) - choose one

General (30-31 hours)

Choose two of the following:

Students must complete one of the following biology series, either BIOL 211/212 or BIOL 221/222.

BIOL 211 General Biology I 4 hours
BIOL 212 General Biology II 4 hours
BIOL 221 Human Anatomy and Physiology I 4 hours
BIOL 222 Human Anatomy and Physiology II 4 hours

Complete the following:

BIOL 335 Neuroscience 4 hours
CSIS 201 Intro to Computer Science 3 hours
CSIS 202 Intro to Computer Science II 3 hours
PHIL 150 Introduction to Philosophy 3 hours
PHIL 335 Knowledge and What There Is 3 hours

Choose one of the following:

MATH 201 Calculus I 4 hours
MATH 260 Discrete Mathematics 3 hours

Choose one of the following:

Some of these courses have additional prerequisite courses not included in the major.

COMM 340 General and Cultural Linguistics 3 hours
CSIS 440 Artificial Intelligence (AI) 3 hours
MATH 290 Introduction to Proofs 3 hours
PHIL 250 Thinking Well: Logic and Life 3 hours
PSYC 311 Child Development 3 hours
PSYC 360 Learning 3 hours
PSYC 410 Sensation and Perception 3 hours
SOC 310 Cultural Anthropology 3 hours

Human and Artificial Intelligence (25-27 hours)

Complete the following:

CSIS 201 Intro to Computer Science 3 hours
CSIS 202 Intro to Computer Science II 3 hours
CSIS 310 Data Structures 3 hours
CSIS 440 Artificial Intelligence (AI) 3 hours
MATH 201 Calculus I 4 hours
MATH 260 Discrete Mathematics 3 hours

Choose two of the following:

BIOL 221 Human Anatomy and Physiology I 4 hours
BIOL 335 Neuroscience 4 hours
CSIS 330 Human-Computer Interactions (HCI) 3 hours
PSYC 311 Child Development 3 hours
PSYC 400 Psychological Testing 3 hours
PSYC 410 Sensation and Perception 3 hours

Neuroscience (26-28 hours)

Choose two of the following:

Students must complete one of the following biology series, either BIOL 211/212 or BIOL 221/222.

BIOL 211 General Biology I 4 hours
BIOL 212 General Biology II 4 hours
BIOL 221 Human Anatomy and Physiology I 4 hours
BIOL 222 Human Anatomy and Physiology II 4 hours

Complete the following:

BIOL 335 Neuroscience 4 hours

CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours

Choose two of the following:

Some of these courses have additional prerequisite courses not included in the major.

BIOL 333 Advanced Physiology 4 hours
BIOL 420 Cell Biology 4 hours
BIOL 450 Advanced Human Anatomy 4 hours
CHEM 341 Biochemistry I 4 hours
PSYC 311 Child Development 3 hours
PSYC 360 Learning 3 hours
PSYC 410 Sensation and Perception 3 hours

Bachelors (BA) in Communication

Overview

The communication major offers a 45-semester-hour course of study that features an interdisciplinary approach to communication that integrates concentrations in human communication, organizational communication, and public relations with a common core of courses in communication methods, theory, and application. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in communication will:

- Understand and employ communication theories, perspectives, principles, and concepts in everyday life
- Create and deliver messages appropriate to the audience, purpose, and context
- Critically analyze messages; and
- Value and apply ethical principles and practices

Major Requirements

Core Requirements (24 hours)

Complete the following:

COMM 100 Introduction to Communication 3 hours

COMM 200 Persuasive Communication 3 hours

COMM 210 Interpersonal Communication 3 hours

COMM 260 Introduction to Communication Research Methods 3 hours

COMM 420 Intercultural Communication 3 hours

COMM 475 Field Experience 1-10 hours

COMM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication 3 hours

WRIT 310 Professional Writing 3 hours

Concentrations (21 hours) - choose one

Human Communication (21 hours)

Complete the following:

COMM 230 Mass Media and Popular Culture 3 hours

COMM 290 Small Group Communication 3 hours

COMM 300 Communication Theory and Research 3 hours

COMM 324 Argumentation and Critical Thinking 3 hours

COMM 400 Critical Approaches to Communication 3 hours

Complete the following:

6-hours of upper-division COMM coursework required. Courses in other disciplines must be approved by faculty advisor.

COMM Upper-Division Elective Coursework 6

Organizational Communication (21 hours)

Complete the following:

BUSN 110 Introduction to Business 3 hours

COMM 270 Introduction to Organizational Communication 3 hours

COMM 290 Small Group Communication 3 hours

COMM 380 Advanced Organizational Communication 3 hours

Complete one of the following 9-hour sequences:

MKTG 260 Principles of Marketing 3 hours

MKTG 300 Consumer Behavior 3 hours

MKTG 420 Marketing Communications 3 hours

OR

MGMT 260 Principles of Management 3 hours

MGMT 300 Leading and Managing People 3 hours

MGMT 480 Organizational Behavior 3 hours

Public Relations (21 hours)

Choose one of the following:

CINE 230 Introduction to Video Production 3 hours

ARTD 240 Graphic Design/Visual Communication for Non-Majors 3 hours

Complete the following:

JOUR 230 Introduction to Journalism 3 hours

COMM 240 Introduction to Public Relations 3 hours

COMM 270 Introduction to Organizational Communication 3 hours

COMM 311 Social Media 3 hours

COMM 321 Public Relations Case Studies and Campaigns 3 hours

COMM 430 Advanced Research Methods & Data Visualization 3 hours

Bachelors (BS) in Computer Science

Overview

The computer science major offers a 54-semester-hour core course of study with an optional 29-semester-hour cyber security concentration. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BS in computer science will:

- Demonstrate problem-solving competency through programming and software development
- Understand applications of discrete structures and algorithms
- Apply theoretical and practical system implementations (architecture, operating systems, networking, database)
- Apply professional/ethical responsibility to their work
- Understand cultural influences within the technical industry

Major Requirements

Core requirements (45 hours)

Complete the following:

CSIS 201 Intro to Computer Science 3 hours
CSIS 202 Intro to Computer Science II 3 hours
CSIS 310 Data Structures 3 hours
CSIS 321 Software Engineering 3 hours
CSIS 340 Database Systems 3 hours
CSIS 360 Computer Architecture and Assembly Language 3 hours
CSIS 370 Object-Oriented Analysis & Design 3 hours
CSIS 420 Structures of Programming Languages 3 hours
CSIS 430 Analysis of Algorithms 3 hours
CSIS 460 Operating Systems 3 hours
ENGR 381 Servant Engineering I 2 hours
ENGR 382 Servant Engineering II 2 hours
ENGR 481 Senior Design I 1 hour
ENGR 482 Senior Design II 3 hours
MATH 201 Calculus I 4 hours
MATH 260 Discrete Mathematics 3 hours

Electives (9 hours)

Students must complete an additional 9-semester-hours from the following options:

CSIS electives coursework 5-9 hours
ENGE 220 Digital Logic Design 4 hours

Optional Concentration

In addition to the Computer Science Core course requirements students can elect to add a Cyber Security Concentration and complete an additional 29-hours of course work. The 9-hour elective requirement required in the Computer Science Core can be met by the courses required to complete the Cyber Security Concentration.

Cyber Security Concentration Option (29 hours)

Complete the following:

ENGE 220 Digital Logic Design 4 hours
CSIS 312 Computer Security and Digital Forensics 3 hours
CSIS 350 Data Communications and Networks 3 hours
CSIS 390 Emerging Mobile Technologies 3 hours
CSIS 413 Advanced Security 3 hours
CSIS 434 Parallel & Distributed Computing 3 hours
CSIS 450 Network Administration 3 hours
CSIS 451 Cyber Defense 4 hours
CSIS 473 Secure Software 3 hours

Bachelors (BA) in Economics

Overview

Economics is the study of how individuals and societies strive to meet their material wants and needs. As a social science, it is fundamentally concerned with improving human welfare. To understand the economy, economists draw upon a number of other academic disciplines including philosophy, mathematics, history, and other social sciences. This is done to understand individual and household decision making, the behavior of firms and industries, and the role of government. Economists are active in addressing many of humanity's most pressing challenges, from escaping poverty to environmental degradation. In keeping with the University's mission, the faculty examine economic topics from a Christian perspective, emphasizing themes such as service, stewardship, and justice.

The economics major offers a 45–46 semester-hour course of study. During their studies students must complete an internship or original research project. Students that graduate with an economics degree are prepared for careers as economists in the business, non-profit, government, or education sectors. The course of study also prepares students for graduate studies in business administration, economics, law, public policy, and public administration. Like other majors in the College of Business and Economics, it requires completion of general core classes, and specialized selected courses. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in economics will:

- Develop an understanding of the many ways humans have resolved economic challenges and opportunities, both across time and space
- Apply economic theory to decision making from the level of the individual to the nation and world
- Demonstrate strong analytical skills in order to gather, evaluate, and analyze economic data
- Demonstrate effective writing and presentation skills with respect to economic topics
- Examine economic issues and controversies from a Christian perspective

Major Requirements

Economics Core (24 hours)

Complete the following:

BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
ECON 301 Intermediate Microeconomics 3 hours

ECON 302 Intermediate Macroeconomics 3 hours
ECON 410 Introduction to Applied Econometric 3 hours
ECON 490 Economics Senior Seminar 3 hours

Required Electives (18-19 hours)

Choose 15 semester hours from the following courses:

ECON 340 Public Economics 3 hours
ECON 370 International Economic Development 3 hours
ECON 440 Urban and Regional Economics 3 hours
ECON 463 International Trade and Finance 3 hours
ECON 485 Selected Topics 1-3 hours
FINC 340 Financial Markets and Institutions 3 hours

Choose one of the following:

BUSN 120 Personal Finance 3 hours
MATH 201 Calculus I 4 hours
MATH 202 Calculus II 4 hours
MATH 301 Calculus III 3 hours
MATH 311 Differential Equations with Linear Algebra 4 hours
MATH 411 Advanced Linear Algebra 3 hours
PHIL 332 Virtue Philosophy 3 hours
PHIL 373 Social Theory 3 hours
PSCI 240 State and Local Government 3 hours
PSCI 300 American Political Theory 3 hours
SOC 363 Social Inequality 3 hours

Experiential Learning (3 hours)

Complete 3 semester hours in one of the following:

ECON 465 Economic Research 1-3 hours
ECON 475 Field Experience 3-6 hours

Bachelors (BS) in Elementary Education

Overview

The elementary education major offers a 80-semester-hour course of study that is designed for the preparation of elementary school teachers with authorizations at the early childhood (age 3 years to grade 4) and elementary (grades 3-8) levels. This degree includes an endorsement in ESOL and requires an iPad to enter the program. Upon entering, students interested in majoring in elementary education should contact an elementary education advisor. There is a recommended sequence for courses in the major. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BS in elementary education will:

- Understand how learners grow and develop within and across the cognitive, linguistic, social, emotional and physical areas and design appropriate and challenging learning experiences for all learners
- Understand individual differences and diverse cultures and communities and apply this knowledge to creating environments that support individual and collaborative learning on behalf of student achievement
- Use a variety of instructional strategies to support every student in meeting rigorous learning goals
- Understand the central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and create learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content
- Use multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and learner's decision making
- Engage in ongoing professional learning and use evidence to continually evaluate his/her practice and adapt practice to become more effective

Major Requirements

Prerequisite Courses (14 hours)

Complete the following:

EDUC 260 Teaching, Schooling and Learning 4 hours

EDUC 270 Intercultural Communication in the ESOL/Bilingual Context 2 hours

MATH 211 Foundations of Elementary Mathematics I 4 hours

MATH 212 Foundations of Elementary Mathematics II 4 hours

Psychology and History Requirement (6 hours)

Complete the following:

PSYC 150 General Psychology 3 hours

Choose one of the following:

HIST 151 United States to 1865 3 hours

HIST 152 United States from 1865 3 hours

Education Core (60 hours)

Complete the following:

Elementary education admissions requirements, policies and procedures are listed in the Teacher Education Majors and Minors section.

EDUC 324 Trends and Methods of Early Childhood Education 4 hours

EDUC 343 Adventures in Math and Science I 4 hours

EDUC 344 Adventures in Math and Science II 4 hours

EDUC 346 The Inclusive Classroom in a Diverse Society 4 hours

EDUC 354 Pedagogy of Health, Human Performance and the Arts 4 hours

EDUC 371 Curriculum Design with ESOL 4 hours

EDUC 375 Practicum I 4 hours

EDUC 381 Classroom Management 2 hours

EDUC 412 Literacy for Children and Adolescents 2 hours

EDUC 413 Reading and Writing Methods I 4 hours

EDUC 414 Reading and Writing Methods with the Common Core Subjects 4 hours

EDUC 461 Applied Linguistics and Second Language Acquisition 4 hours

EDUC 475 Practicum II 10 hours

EDUC 480 Classroom Assessment: Assessing and Planning for All Learners 4 hours

EDUC 490 Senior Seminar 2 hours

Optional

Middle-Level Authorization (5 hours)

Students may add the middle-level authorization (grades 5-10) to the elementary/early childhood authorization if they meet the testing/course work requirements in a content area, take the required courses, and complete an additional student teaching at the middle level.

EDUC 353 Trends and Issues in Middle-Level Education 4 hours

EDUC 376 Student Teaching I for Middle-Level Authorization 1 hour

Additional authorizations are available through the graduate department of Educational Foundations and Leadership.

Admission to Student Teaching

Acceptance into the teacher education program does not guarantee assignment for student teaching.

Admission to student teaching is based upon continued good standing; favorable recommendations; an attained cumulative GPA of 2.75 or better on all college-level courses, including transfer credits; completion of the required teaching major and professional courses with no grade below C-; passing scores on appropriate basic skills and having taken content area examinations; successful completion of the student

teaching interview; and a minimum of 16 semester hours completed in residence prior to student teaching.

Bachelors (BA) in English

Overview

The English major offers a 36-semester-hour course of study that teaches students to read and write with attention to truthfulness, logic, rhetoric and aesthetics. Graduates pursue careers in teaching, writing, publishing and other fields that demand perceptive attention to textual detail and the ability to communicate with clarity and grace. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in English will:

- Demonstrate the ability to write clearly and effectively in a variety of rhetorical situations.
- Demonstrate the ability to interpret literature with an attention to a text's historical, aesthetic, cultural, and global dimensions.
- Formulate how their spiritual development interacts with and informs their reading, writing, and thinking.

Major Requirements

Literature Core (24 hours)

Complete the following:

LITR 180 Studies in Literature 3 hours

LITR 335 Advanced Studies in American Literature 3 hours

LITR 350 Literary Criticism 3 hours

LITR 365 Advanced Studies in British Literature 3 hours

Students must complete a minimum of two of the following literature sequence courses before enrolling in LITR 335 or LITR 365.

Students must choose 2 of the following sequences and complete 2 courses from each sequence:

Sequence 1

Complete 2 courses from the following:

LITR 236 Ancient World Literature 3 hours

LITR 237 World Literature, Medieval to Modern 3 hours

LITR 238 Contemporary World Literature 3 hours

Sequence 2

Complete 2 courses from the following:

LITR 326 American Literature to 1865 3 hours LITR
327 American Literature, 1865-1914 3 hours LITR
328 American Literature, 1914-Present 3 hours

Sequence 3

Complete 2 courses from the following:

LITR 376 British Literature to 1660 3 hours
LITR 377 British Literature, 1660-1830 3 hours
LITR 378 British Literature, 1830-Present 3 hours

Writing Core (9 hours)

Complete the following:

WRIT 200 Studies in Writing 3 hours

Choose two of the following:

WRIT 210 Practical Grammar and Editing 3 hours
WRIT 230 Introduction to Journalism 3 hours
WRIT 240 Technical Writing 3 hours
WRIT 250 Creative Nonfiction 3 hours
WRIT 310 Professional Writing 3 hours
WRIT 330 Magazine and Feature Writing 3 hours
WRIT 360 Writing Fiction 3 hours
WRIT 370 Writing Poetry 3 hours

English Senior Capstone (3 hours)

Students may select a literature or a writing focus for their senior experience. (3 hours required)

LITR 490 Senior Experience 3 hours
WRIT 490 Senior Experience 3 hours

Optional Concentrations (for an additional 12-18 hours)

Creative Writing (12 hours)

Choose four of the following:

WRIT 230 Introduction to Journalism 3 hours
WRIT 250 Creative Nonfiction 3 hours
WRIT 330 Magazine and Feature Writing 3 hours
WRIT 360 Writing Fiction 3 hours
WRIT 370 Writing Poetry 3 hours

Students may choose one of the following courses as a substitute for one of the courses listed above:

CINE 260 Scriptwriting For Media 3 hours

CINE 320 Dramatic Scriptwriting 3 hours
JOUR 470 Journalism II 3 hours
THEA 390 Playwriting 3 hours

Professional Writing (18 hours)

Complete the following:

WRIT 210 Practical Grammar and Editing 3 hours
WRIT 240 Technical Writing 3 hours
WRIT 310 Professional Writing 3 hours

Choose three of the following:

ARTD 250 Print and Packaging 3 hours
COMM 240 Introduction to Public Relations 3 hours
CINE 260 Scriptwriting For Media 3 hours
WRIT 230 Introduction to Journalism 3 hours

Preparation for Graduate Studies in English (15 hours)

Complete the following:

Students must choose two out of the three courses listed for the Literature Sequence not previously taken for the Literature Core. 6 hours
LITR 379 Shakespeare 3 hours

Complete the following:

Choose one additional literature (LITR) course. (3 hours)
Choose one additional literature (WRIT) course. (3 hours)
Electives may not include WRIT 100 English Skills, WRIT 103 Individualized English Skills, or WRIT 110 College Writing.

Teacher Preparation for Secondary Teachers of English (17 hours)

Complete the following:

Students must choose two out of the three courses listed for the Literature Sequence not previously taken for the Literature Core. (6 hours)
LITR 379 Shakespeare 3 hours
EDUC 250 Teaching as a Profession 2 hours

Complete the following:

Choose one additional literature (LITR) course. (3 hours)
Choose one additional literature (WRIT) course. (3 hours)
Electives may not include WRIT 100 English Skills, WRIT 103 Individualized English Skills, or WRIT 110 College Writing.

Bachelors (BS) in Engineering

Overview

Engineering is the application of mathematical and scientific knowledge to provide for the technological needs of society. This major offers a 94-98-semester-hour course of study with a concentration in biomedical, civil, computer, electrical or mechanical engineering. Design work is integrated throughout the curriculum, utilizing current methodologies and computer tools. The engineering major will prepare students for the engineering profession, graduate programs and professional licensure. The George Fox Engineering Program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

Those students interested in pursuing an engineering degree in other areas, such as chemical or aerospace engineering, should see Applied Science.

Upon entering, students interested in majoring in engineering should contact an engineering advisor. There are specific general education requirements for engineering majors. There is also a sequence for courses in the major.

Program Outcomes

George Fox engineering graduates will have:

- An ability to apply knowledge of mathematics, science and engineering
- An ability to design and conduct experiments, as well as to analyze and interpret data
- 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
- An ability to function on multi-disciplinary teams
- An ability to identify, formulate and solve engineering problems
- An understanding of professional and ethical responsibility
- An ability to communicate effectively
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- A recognition of the need for and an ability to engage in life-long learning
- A knowledge of contemporary issues
- An ability to use techniques, skills and modern engineering tools necessary for engineering practice

Major Requirements

Required for all concentrations

Economics Requirement (3 hours)

Choose one of the following:

ECON 211 Principles of Macroeconomics 3 hours

ECON 212 Principles of Microeconomics 3 hours

Mathematics and Natural Science (27 hours)

Complete the following:

CHEM 211 General Chemistry I 4 hours

MATH 201 Calculus I 4 hours

MATH 202 Calculus II 4 hours

MATH 301 Calculus III 3 hours

MATH 311 Differential Equations with Linear Algebra 4 hours

PHYS 211 General Physics with Calculus 4 hours

PHYS 212 General Physics with Calculus 4 hours

Engineering Core (14 hours)

Complete the following.

ENGR 151 Engineering Principles I 3 hours

ENGR 152 Engineering Principles II 3 hours

ENGR 381 Servant Engineering I 2 hours

ENGR 382 Servant Engineering II 2 hours

ENGR 481 Senior Design I 1 hour

ENGR 482 Senior Design II 3 hours

Additional graduation requirement

Engineering Seminar Series (15 sessions)

Concentrations (53-54) - choose one

Biomedical Engineering (53 hours)

Complete the following courses

BIOL 211 General Biology I 4 hours

BIOL 221 Human Anatomy and Physiology I 4 hours

BIOL 222 Human Anatomy and Physiology II 4 hours

ENGB 330 Biotransport 3 hours

ENGB 340 Mechanics of Biomaterials 3 hours

ENGB 350 Biosignal Analysis 3 hours

ENGB 410 Design of Medical Devices 3 hours

ENGB 420 Biomechanics 3 hours

ENGB 430 Rehabilitation Engineering 3 hours

ENGE 260 Circuits and Instrumentation 4 hours

ENGM 211 Statics 3 hours

ENGM 212 Dynamics 3 hours

ENGM 360 Finite Elements and Computer Modeling 3 hours

ENGR 250 Principles of Materials Science 3 hours

MATH 330 Engineering Statistics 3 hours

Choose one of the following two sequences

Medical Device Sequence

ENGB 351 Biosignal Analysis Lab 1 hour
ENGB 370 Tissue Engineering 3 hours

Pre-PT Sequence

CHEM 212 General Chemistry II 4 hours

Civil Engineering (53 hours)

Complete the following

ENGC 210 Site Development w/ AutoCAD and Civil 3D 2 hours
ENGC 220 Engineering Surveying 2 hours
ENGC 310 Environmental Engineering 3 hours
ENGC 330 Structural Analysis and Design 3 hours
ENGC 340 Geotechnical Engineering 4 hours
ENGC 350 Water Resources Engineering 4 hours
ENGC 360 Engineering Economics 2 hours
ENGC 370 Transportation Engineering 3 hours
ENGC 450 Construction Management and Professional Practice 2 hours
ENGM 211 Statics 3 hours
ENGM 212 Dynamics 3 hours
ENGM 311 Engineering Thermodynamics 3 hours
ENGM 320 Mechanics of Materials 3 hours
ENGM 321 Mechanics of Materials Lab 1 hour
ENGM 330 Fluid Mechanics 3 hours
ENGR 250 Principles of Materials Science 3 hours
MATH 330 Engineering Statistics 3 hours

Complete the following:

ENGC 430 Reinforced Concrete Design 3 hours
ENGC 460 Design of Steel Structures 3 hours

Computer Engineering (53-54 hours)

Complete the following

ENGE 220 Digital Logic Design 4 hours
ENGE 250 Electrical Circuit Analysis 4 hours
ENGE 270 Electric Power Systems 3 hours
ENGE 311 Electronic Devices and Circuits 4 hours
ENGE 312 Applications of Electronic Devices 4 hours
ENGE 320 Microprocessor Architecture 4 hours
ENGE 330 Electrical Signals and Networks 3 hours
ENGE 420 Embedded System Design 3 hours

ENGE 480 Digital Signal Processing 3 hours
CSIS 202 Intro to Computer Science II 3 hours
CSIS 310 Data Structures 3 hours
CSIS 350 Data Communications and Networks 3 hours
CSIS 430 Analysis of Algorithms 3 hours
CSIS 460 Operating Systems 3 hours
MATH 260 Discrete Mathematics 3 hours

Choose one additional math or science elective from the following:

BIOL 100 Foundations of Biology 4 hours
BIOL 211 General Biology I 4 hours
BIOL 212 General Biology II 4 hours
BIOL 221 Human Anatomy and Physiology I 4 hours
CHEM 212 General Chemistry II 4 hours
ENGR 250 Principles of Materials Science 3 hours
MATH 312 Numerical Methods 3 hours
MATH 330 Engineering Statistics 3 hours
MATH 331 Probability 3 hours

Electrical Engineering (53-54 hours)

Complete the following

ENGE 220 Digital Logic Design 4 hours
ENGE 250 Electrical Circuit Analysis 4 hours
ENGE 270 Electric Power Systems 3 hours
ENGE 311 Electronic Devices and Circuits 4 hours
ENGE 312 Applications of Electronic Devices 4 hours
ENGE 320 Microprocessor Architecture 4 hours
ENGE 330 Electrical Signals and Networks 3 hours
ENGE 360 Electromagnetic Fields and Waves 3 hours
ENGE 420 Embedded System Design 3 hours
ENGE 430 Communication Systems 3 hours
ENGE 460 Microwave Engineering and Applications 3 hours
ENGE 470 Power Electronics and Renewable Energy 3 hours
ENGE 480 Digital Signal Processing 3 hours
CSIS 202 Intro to Computer Science II 3 hours

Choose one of the following:

MATH 312 Numerical Methods 3 hours
MATH 330 Engineering Statistics 3 hours
MATH 331 Probability 3 hours

Choose one additional math or science elective from the following:

BIOL 100 Foundations of Biology 4 hours
BIOL 211 General Biology I 4 hours
BIOL 212 General Biology II 4 hours

BIOL 221 Human Anatomy and Physiology I 4 hours
CHEM 212 General Chemistry II 4 hours
ENGR 250 Principles of Materials Science 3 hours
MATH 260 Discrete Mathematics 3 hours
MATH 312 Numerical Methods 3 hours
MATH 330 Engineering Statistics 3 hours
MATH 331 Probability 3 hours

Mechanical Engineering (53 hours)

Complete the following:

ENGE 260 Circuits and Instrumentation 4 hours
ENGM 211 Statics 3 hours
ENGM 212 Dynamics 3 hours
ENGM 220 Materials and Processes in Manufacturing 3 hours
ENGM 311 Engineering Thermodynamics 3 hours
ENGM 312 Applications of Engineering Thermodynamics 2 hours
ENGM 320 Mechanics of Materials 3 hours
ENGM 321 Mechanics of Materials Lab 1 hour
ENGM 330 Fluid Mechanics 3 hours
ENGM 350 Machine Dynamics and Vibrations 3 hours
ENGM 360 Finite Elements and Computer Modeling 3 hours
ENGM 380 Heat Transfer 3 hours
ENGM 381 Energy Lab 1 hour
ENGM 400 Mechanical Engineering Design 3 hours
ENGM 480 Control Systems Engineering 3 hours
ENGR 250 Principles of Materials Science 3 hours

Choose two of the following:

ENGM 420 Biomechanics 3 hours
ENGM 450 Fundamentals of Flight Dynamic 3 hours
ENGM 470 Energy Systems Engineering 3 hours

Choose one of the following:

MATH 312 Numerical Methods 3 hours
MATH 330 Engineering Statistics 3 hours
MATH 331 Probability 3 hours

Bachelors (BS) in Exercise Science

Overview

Exercise Science offers a 58- to 59-semester-hour interdisciplinary course of study, designed to prepare students for work in the field of physical therapy and the exercise science fields. The major includes strong emphasis on science and health and human performance fields. Students are also prepared for fields outside of physical therapy and exercise science. This major can assist students seeking advanced degrees in the fields of occupational therapy, chiropractic and the physician assistant profession.

Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a degree in exercise science will:

- Develop a passion for learning about the human body and have a greater appreciation for its development, function and spiritual nature
- Use scientific research processes effectively to ask relevant questions, collect data, present results and evaluate results
- Demonstrate proficiency in the scientific constructs and application of principles to lead clients to better health
- Possess the requisite knowledge to work in science-related fields related to exercise and physical activity
- Have readiness to pursue advanced educational training in exercise science or to enter professional schools in the health sciences

Major Requirements

Core Requirements (46 hours)

Complete the following:

BIOL 221 Human Anatomy and Physiology I 4 hours
BIOL 222 Human Anatomy and Physiology II 4 hours
CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours
COMM 100 Introduction to Communication 3 hours
PHYS 201 General Physics 4 hours
PHYS 202 General Physics 4 hours
PSYC 150 General Psychology 3 hours
HHPE 390 Care and Prevention of Athletic Injuries 3 hours
HHPE 394 Kinesiology 3 hours
HHPE 430 Exercise Physiology 3 hours
HHPE 470 Motor Development and Motor-Skill Learning 3 hours
HHPE 475 Field Experience 3 hours
HHPE 490 Senior Seminar 1 hour

Statistics Requirement (3 hours)

Choose one of the following:

MATH 240 Statistical Procedures 3 hours

PSYC 240 Statistical Procedures 3 hours

Biology Elective (4 hours)

Choose one of the following:

BIOL 211 General Biology I 4 hours

BIOL 322 Comparative Vertebrate Anatomy 4 hours

BIOL 333 Advanced Physiology 4 hours

BIOL 335 Neuroscience 4 hours

Additional Required Electives (5-6 hours)

Choose two of the following:

HHPE 228 Principles of Conditioning 2 hours

HHPE 401 Physical Examination of the Lower Extremities in Athletic Training 3 hours

HHPE 402 Physical Exam of the Spine of the Spine and Upper Extremities in Athletic Training 3 hours

PSYC 310 Lifespan Human Development 3 hours

PSYC 312 Adult Development 3 hours

PSYC 314 Adolescent Development 3 hours

PSYC 320 Neuroscience 3 hours

PSYC 420 Abnormal Psychology 3 hours

Optional

Choices of the following courses are dependent upon the direction the student has previously selected with regard to graduate school or profession. However, a student isn't required to take any of these courses. Some courses listed below are only offered every other year. Plan accordingly.

Optional Electives (not required)

HHPE 366 General Medical Conditions in Athletic Training 2 hours

HHPE 384 Pharmacology in Athletic Training 1 hour

HHPE 413 Therapeutic Exercise 2 hours

HHPE 414 Therapeutic Modalities 2 hours

HHPE 420 Exercise Prescription 3 hours

HHPE 480 Tests and Measurements in Physical Education 2 hours

HLTH 300 Nutrition 3 hours

Bachelors (BA) in Finance

Overview

This major offers a 60-semester-hour course of study, enabling students to acquire the necessary financial management tools required for analyzing and executing the financial aspects of managerial decisions. The curriculum will help prepare students for careers in corporate financial management, personal financial planning and investment services. Like other majors in the Department of Business and Economics, it requires completion of a general business core, as well as specialized courses. Students are required to obtain a minimum grade of C- in all major courses. Field experiences and internships are strongly encouraged.

Program Objectives

Graduates with a BA in finance will:

- Be technically competent in financial analysis, financial strategy and tool and software use
- Demonstrate an understanding of the macro economic factors that impact financial decision making
- Be competent leaders and managers to be servants for the world, specifically leaders who are ethically grounded, globally engaged and socially responsible
- Engage in real-time and experiential learning opportunities where he/she can integrate technical knowledge and professional acumen
- Evaluate the pressures, benefits and challenges of the globalization of finance
- Integrate a biblical worldview in the finance profession

Major Requirements

Business Core (42 hours)

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours
ACCT 272 Principles of Managerial Accounting 3 hours
BUSN 110 Introduction to Business 3 hours
BUSN 120 Personal Finance 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
BUSN 360 Business Law 3 hours
BUSN 486 Strategic Management 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
FINC 260 Business Finance 3 hours
GBSN 300 Global Business 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Finance Core (18 hours)

Complete the following:

ECON 463 International Trade and Finance 3 hours
FINC 300 Intermediate Financial Management 3 hours
FINC 340 Financial Markets and Institutions 3 hours
FINC 450 Investment Planning 3 hours
FINC 460 Financial Analysis and Strategy 3 hours
FINC 490 Seminar in Finance 3 hours

Students are strongly encouraged to consider the following elective:

FINC 475 Field Experience 1-6 hours

Bachelors (BS) in Financial Planning

Overview

This major offers a 63-semester-hour course of study registered by the CFP® Board, enabling students to acquire the necessary technical and professional skills for a successful career as a Certified Financial Planner®, the top credentialing certification in the financial planning profession. After students complete the course work involved with this degree, they will have met the educational requirement of the CFP® Board and be eligible to sit for the CFP® exam. Like other majors in the Department of Business and Economics, it requires completion of a general business core. Students are required to obtain a minimum grade of C- in all major courses.

Program Objectives

Graduates with a BS in financial planning will possess:

- The skills and knowledge of financial planning that are represented in the full range of topics covered by the CFP® examination. Including knowing how to:
 - # Understand the fundamentals of the financial planning process.
 - # Calculate and interpret the time value of money.
 - # Develop a clear, professional understanding of insurance policies and strategies.
 - # Understand risk management concepts.
 - # Apply tax planning strategies to meet the goals of the client.
 - # Become skilled in applying retirement planning strategies.
 - # Develop estate planning strategies for the benefit of clients.
- Interpersonal skills necessary to maintain successful client relationships and to work effectively in planning environments.
- The quantitative, analytical, and technical skills needed to address complex financial situations.
- The ability to develop financial plans for clients with a variety of needs.
- The awareness, understanding, and skills necessary to live and work in a diverse world.
- Knowledge of the legal and regulatory environment in which financial planning occurs and familiarity with relevant licensing, reporting, and compliance requirements.
- The ability to recognize the ethical dilemmas that may arise in financial planning practices and familiarity with the appropriate responses to those dilemmas, as reflected in the CFP® Board's Code of Ethics and Professional Responsibilities.

Major Requirements

Business Core (42 hours)

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours

ACCT 272 Principles of Managerial Accounting 3 hours

BUSN 110 Introduction to Business 3 hours
BUSN 120 Personal Finance 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
BUSN 360 Business Law 3 hours
BUSN 486 Strategic Management 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
FINC 260 Business Finance 3 hours
GBSN 300 Global Business 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Financial Planning Core (21 hours)

Complete the following:

FINC 250 Personal Financial Planning for Professionals 3 hours
FINC 310 Insurance Planning and Risk Management 3 hours
FINC 320 Income Tax Planning 3 hours
FINC 330 Estate Planning 3 hours
FINC 450 Investment Planning 3 hours
FINC 470 Retirement Planning 3 hours
FINC 491 Personal Finance Planning Capstone 3 hours

Bachelors (BA) in Global Business

Overview

This major offers a 60-semester-hour course of study, designed for students who have a strong desire to work in companies or situations that are directly related to global commerce. In addition to providing the basic core of business knowledge, this major will focus on the applications of these areas that are unique to global enterprises. Students are given the opportunity to complete part of their major classes through the International Business Institute program. This is a 10-week summer experience that students would normally complete between their junior and senior years. Students are also required to complete an internship with a global business or company. Like other majors in the College of Business, it requires completion of the general business core, as well as specialized courses.

Program Objectives

Graduates with a BA in global business will:

- Articulate global business and international management theories, concepts, principles, skills and practices, including comparative economic and political systems as these define business practices in a particular geography
- Develop and enhance the student's own intercultural awareness and the impact that international differences in economic, political, cultural and technological systems may have on business and management practices
- Evaluate the pressures, benefits and challenges of globalization and develop the ability to identify ongoing global trends that need to be taking into consideration for effective business decision making across borders
- Evaluate, analyze and integrate information from a variety of sources and develop the ability to find relevant cross-border information that may not be readily accessible
- Demonstrate effective writing and presentation skills in a multicultural setting

Major Requirements

Business Core (42 hours)

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours
ACCT 272 Principles of Managerial Accounting 3 hours
BUSN 110 Introduction to Business 3 hours
BUSN 120 Personal Finance 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
BUSN 360 Business Law 3 hours
BUSN 486 Strategic Management 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours

FINC 260 Business Finance 3 hours
GBSN 300 Global Business 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Global Business Core: Choose Option (18 hours)

Option 1

Complete the following:

ECON 463 International Trade and Finance 3 hours
GBSN 470 Global Strategy 3 hours
INTL 230 Introduction to International Affairs 3 hours
MGMT 440 International Management 3 hours

Choose two of the following:

6 hours required

GBSN 399 Cross-Cultural Study 3 hours
GBSN 475 Field Experience 1-6 hours
COMM 420 Intercultural Communication 3 hours
ECON 370 International Economic Development 3 hours
SOC 310 Cultural Anthropology 3 hours

Option 2

Complete the following:

GBSN 340 Comparative Economic Systems 3 hours
GBSN 460 International Trade and Finance 3 hours
GBSN 480 Global Business Strategy 3 hours
INTL 230 Introduction to International Affairs 3 hours
MKTG 340 Global Marketing 3 hours

Choose one of the following:

3 hours required

GBSN 399 Cross-Cultural Study 3 hours
GBSN 475 Field Experience 1-6 hours
COMM 420 Intercultural Communication 3 hours
ECON 370 International Economic Development 3 hours
SOC 310 Cultural Anthropology 3 hours

Bachelors (BA) in Graphic Design

Overview

The graphic design major provides students the opportunity to develop an informed design practice built on a rich understanding of the principles of design, the impact of visual communication, and a variety of strategies for creative problem solving.

Encompassing a broad range of media, the curriculum focuses on powerful visual communication and research-based design solutions. Starting with coursework that establishes a strong understanding of foundational formal principles, typographic sensitivity, compositional strategy, and ensures knowledge of current industry-standard software the major then opens up to offer students the opportunity to study the most prevalent uses of design including print, packaging, branding and identity systems, campaigns, web design, and systematic design projects.

Through the curriculum, students are introduced to rich design processes that include idea generation, creative research, problem definition, concept development, sketching, prototyping, image making, typography, print production, and the production of interactive media. All design students take part in an internship and work directly with clients during their course of study. Design majors graduate the program with experience and knowledge that prepares them to join design studios, lead in-house design teams, or launch their own independent design practice.

Faculty

The versatile faculty is made up of artists and designers who actively produce and exhibit their creative work - artists who are leaders in their various fields of discipline. They love to teach because they love what they teach. Our faculty is equipped to motivate, inspire and nurture; they become true mentors to their students. The faculty of the Department of Art and Design believe it is necessary for students to become leaders rather than followers, to become the next generation of gifted creative artists and designers and to become art professionals in the ever-growing number of contemporary art and art-related careers.

More information about the graphic design major can be found on the art major admissions page.

Program Objectives

Graduates with a BA in graphic design will:

- Demonstrate the ability to write and speak about art, design, and art history with clarity and logic, and be able to form and support critical judgements about art, design and art history
- Demonstrate the technical mastery of the relevant materials and tools, and the terminology, theories, and practices relevant to the student's field of study
- Demonstrate the ability generate, support, and utilize individual thoughts and ideas
- Demonstrate the ability to do research in art, design, and art history, and the competence and knowledge to analyze and think critically
- Demonstrate expanding knowledge of historical achievements and contemporary thinking, trends, processes, and issues in art and design, and apply that knowledge to their personal work

- Demonstrate broader and deeper understanding of contemporary arts practice, grasp of how to develop and maintain studio or design practice, and ideas communicating successful cultivation of both audience, concept and goals in visual art and design

Major Requirements

Art Core (12 hours)

Complete the following:

ARTS 101 Basic Design 2-D 3 hours
 ARTS 111 Drawing I 3 hours
 ARTS 460 Art And Christ 3 hours

Choose one of the following:

ARTS 217 Art History Survey from 1450 3 hours
 ARTS 382 Twentieth-Century Art 3 hours

Professional Networking Requirement (5 hours)

Complete the following:

ARTS 105 Art & Design Professional Networking Seminar 1 hour
 ARTS 105 Art & Design Professional Networking Seminar 1 hour
 ARTS 105 Art & Design Professional Networking Seminar 1 hour
 ARTS 305 Art & Design Professional Networking Seminar 1 hour
 ARTS 305 Art & Design Professional Networking Seminar 1 hour

Technical Coursework (6 hours)

The technical coursework establishes foundational software knowledge in industry-standard programs, equipping students to create work for a wide-range of media.

Complete the following:

ARTD 110 Creative Suite 3 hours
 ARTD 211 Illustration and Logo Craft 1 hour
 ARTD 212 Image Construction and Photoshop 1 hour
 ARTD 213 Digital Layout 1 hour

Contextual Coursework (13-14 hours)

The contextual coursework immerses students in historic, social, and contemporary practices related to the field of design.

Complete the following:

ARTD 200 Design Process and Thinking 3 hours
 ARTD 363 History of Visual Communication 3 hours
 ARTD 373 Creative Action Studio 3 hours
 ARTD 393 Design in Practice 2-3 hours

ARTD 492 Portfolio Development 2 hours

Graphic Design Core (18 hours)

The graphic design core is a series of project-driven coursework that covers the most frequent applications and outcomes developed by graphic designers.

Complete the following:

ARTD 220 Typography 3 hours

ARTD 250 Print and Packaging 3 hours

ARTD 270 Web Design I 3 hours ARTD

383 Interaction Design 3 hours ARTD 453

Systems and Identity 3 hours ARTD 481

Collaborative Design I 3 hours

Bachelors (BS) in Health and Human Performance

Overview

The health and human performance major offers a 48- to 56-credit-hour course of study (depending on concentration selected) that is designed to prepare students in pre-physical education teaching and pre-health teaching for entrance into an MAT program; to prepare students in fitness management for sitting for the NSCA and ACSM certification exams; and/or for employment in the fitness industry. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Students may choose among three concentrations in health and human performance. Students who wish to become health teachers are essentially entering a five-year program. They will take the health preteaching concentration within the Department of Health and Human Performance. Upon successful completion of this four-year concentration, students are directed to enter a one-year Master of Arts in Teaching Program. Upon completion of the MAT program the student will have completed the master's degree and be certified to teach health.

Students who wish to become physical education teachers are essentially entering a five-year program. They will take the physical education preteaching concentration within the Department of Health and Human Performance. Upon successful completion of this four-year concentration students are directed to enter a one-year Master of Arts in Teaching Program. Upon completion of the MAT program the student will have completed the master's degree and be certified to teach physical education.

Program Outcomes

Graduates with a BS in health and human performance will:

- Understand the role of physical activity in personal health and wellness
- Apply scientific concepts toward assessing, promoting or enhancing physical health, fitness or performance
- Communicate, both orally and in writing effectively
- Analyze, evaluate and integrate information from physical education research

Major Requirements

Core Requirements (11 hours)

Complete the following:

BIOL 221 Human Anatomy and Physiology I 4 hours
BIOL 222 Human Anatomy and Physiology II 4 hours
PSYC 150 General Psychology 3 hours

Concentrations (37-45 hours) - choose one

Fitness Management (42-43 hours)

Complete the following:

HHPA 130 Aquatics 1 hour
HHPE 200 History and Principles of Physical Education 2 hours
HHPE 223 Tumbling/Gymnastics 1 hour
HHPE 228 Principles of Conditioning 2 hours
HHPE 360 Organization and Administration of Sport and Physical Education 2 hours
HHPE 380 Experiential Recreational Leadership 3 hours
HHPE 390 Care and Prevention of Athletic Injuries 3 hours
HHPE 394 Kinesiology 3 hours
HHPE 420 Exercise Prescription 3 hours
HHPE 430 Exercise Physiology 3 hours
HHPE 460 Physical Education for the Exceptional Student 3 hours
HHPE 470 Motor Development and Motor-Skill Learning 3 hours
HHPE 475 Field Experience 6 hours
HHPE 490 Senior Seminar 1 hour
HLTH 230 First Aid and Safety 1 hour
HLTH 300 Nutrition 3 hours

Choose one of the following:

HHPE 401 Physical Examination of the Lower Extremities in Athletic Training 3 hours
HHPE 402 Physical Exam of the Spine of the Spine and Upper Extremities in Athletic Training 3 hours
HHPE 480 Tests and Measurements in Physical Education 2 hours
HLTH 240 Stress Management 3 hours

Health Preteaching (37 hours)

Complete the following:

EDUC 250 Teaching as a Profession 2 hours
HHPE 200 History and Principles of Physical Education 2 hours
HHPE 360 Organization and Administration of Sport and Physical Education 2 hours
HHPE 394 Kinesiology 3 hours
HHPE 430 Exercise Physiology 3 hours
HHPE 460 Physical Education for the Exceptional Student 3 hours
HHPE 485 Special Topics: Health and Physical Education Methods 3 hours
HHPE 490 Senior Seminar 1 hour
HLTH 210 Drug Education 2 hours
HLTH 223 Sociology of Families 3 hours
HLTH 230 First Aid and Safety 1 hour
HLTH 240 Stress Management 3 hours
HLTH 300 Nutrition 3 hours
HLTH 320 Contemporary Health Issues 3 hours
PSYC 240 Statistical Procedures 3 hours

Physical Education Preteaching (44-45 hours)

Complete the following

EDUC 250 Teaching as a Profession 2 hours
HHPA 109 Ballroom Dancing 1 hour
HHPA 130 Aquatics 1 hour
HHPE 200 History and Principles of Physical Education 2 hours
HHPE 221 Basketball/Golf 1 hour
HHPE 222 Field Sports 1 hour
HHPE 223 Tumbling/Gymnastics 1 hour
HHPE 226 Tennis/Volleyball 1 hour
HHPE 300 Coaching Theory and Practice 2 hours
HHPE 301 Sports Psychology 2 hours
HHPE 360 Organization and Administration of Sport and Physical Education 2 hours
HHPE 394 Kinesiology 3 hours
HHPE 410 Teaching Physical Education 2 hours
HHPE 420 Exercise Prescription 3 hours
HHPE 430 Exercise Physiology 3 hours
HHPE 460 Physical Education for the Exceptional Student 3 hours
HHPE 470 Motor Development and Motor-Skill Learning 3 hours
HHPE 480 Tests and Measurements in Physical Education 2 hours
HHPE 485 Special Topics: Health and Physical Education Methods 3 hours
HHPE 490 Senior Seminar 1 hour
HLTH 210 Drug Education 2 hours
HLTH 230 First Aid and Safety 1 hour

Choose one of the following:

HHPE 310 Coaching Basketball 2 hours
HHPE 320 Coaching Baseball/Softball 2 hours
HHPE 330 Coaching Soccer 2 hours
HHPE 340 Coaching Track 2 hours
HHPE 350 Coaching Volleyball 2 hours
HHPE 390 Care and Prevention of Athletic Injuries 3 hours
HLTH 300 Nutrition 3 hours

†A Red Cross Lifeguarding or Water Safety Instructor Certificate can be used to fulfill HHPA 130 Aquatics requirement.

Bachelors (BA) in History

Overview

The history major offers a 36-semester-hour course of study. A minimum of 21 semester hours must be upper-division courses. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in history will:

- Have a heightened appreciation of the history, culture and context of all peoples
- Articulate how the Christian faith can inform the study of history
- Analyze primary and secondary historical literature, various forms of historic media, and material culture
- Apply advanced research skills to develop independent conclusions and effectively argue these conclusions
- Think, write and speak analytically

Major Requirements

Core requirements (12 hours)

Complete the following:

HIST 290 Introduction to Historical Studies 3 hours

HIST 490 History Seminar 3 hours

Choose one of the following:

HIST 110 Western Civilization to 1648 3 hours

HIST 120 Western Civilization from 1648 3 hours

Choose one of the following:

HIST 151 United States to 1865 3 hours

HIST 152 United States from 1865 3 hours

Electives (24 hours)

Complete the following:

HIST Elective Coursework 24 hours

Bachelors (BA) in Illustration

Overview

The illustration program equips students to tell stories, develop characters, convey ideas and craft imagery for commercial, social, and editorial projects. An illustrator's work is defined by their ability to problem solve and communicate visually with public audiences rather than their use of a particular media. Therefore, within the curriculum, Illustration majors are offered a broad-base of study, gaining exposure to foundational image-making practices and compositional strategies, historic and contemporary methods of visual communication, as well as a combination of traditional studio practices and digital production techniques. Throughout the program, students can expect to craft work physically, via a lens, and digitally as well as craft objects in 2, 3, or 4 dimensions.

Over their course of study, the curriculum prepares students to enter the market as independent artists with distinct approaches to idea generation and a honed personal vision. Whether working with paint or drawing on screen using a Wacom tablet, Illustration majors develop skills and techniques necessary for the kinds of powerful storytelling that have long served as a way of invigorating and re-igniting culture, rallying political movements, and embodying cultural values.

Faculty

The versatile faculty is made up of artists and designers who actively produce and exhibit their creative work - artists who are leaders in their various fields of discipline. They love to teach because they love what they teach. Our faculty is equipped to motivate, inspire and nurture; they become true mentors to their students. The faculty of the Department of Art and Design believe it is necessary for students to become leaders rather than followers, to become the next generation of gifted creative artists and designers and to become art professionals in the ever-growing number of contemporary art and art-related careers.

More information about the illustration major can be found on the art major admissions page.

Program Objectives

Graduates with a BA in Illustration will:

- Demonstrate the ability to write and speak about art, design, and art history with clarity and logic, and be able to form and support critical judgements about art, design and art history
- Demonstrate the technical mastery of the relevant materials and tools, and the terminology, theories, and practices relevant to the student's field of study
- Demonstrate the ability generate, support, and utilize individual thoughts and ideas
- Demonstrate the ability to do research in art, design, and art history, and the competence and knowledge to analyze and think critically
- Demonstrate expanding knowledge of historical achievements and contemporary thinking, trends, processes, and issues in art and design, and apply that knowledge to their personal work

- Demonstrate broader and deeper understanding of contemporary arts practice, grasp of how to develop and maintain studio or design practice, and ideas communicating successful cultivation of both audience, concept and goals in visual art and design

Major Requirements

Art Core (15 hours)

Complete the following:

ARTS 101 Basic Design 2-D 3 hours
 ARTS 102 Basic Design 3-D 3 hours
 ARTS 111 Drawing I 3 hours
 ARTS 460 Art And Christ 3 hours

Choose one of the following:

ARTS 217 Art History Survey from 1450 3 hours
 ARTS 382 Twentieth-Century Art 3 hours

Professional Networking Requirement (5 hours)

Complete the following:

ARTS 105 Art & Design Professional Networking Seminar 1 hour
 ARTS 105 Art & Design Professional Networking Seminar 1 hour
 ARTS 105 Art & Design Professional Networking Seminar 1 hour
 ARTS 305 Art & Design Professional Networking Seminar 1 hour
 ARTS 305 Art & Design Professional Networking Seminar 1 hour

Illustration Requirements (25 hours)

Complete the following:

ARTD 110 Creative Suite 3 hours
 ARTD 211 Illustration and Logo Craft 1 hour
 ARTD 212 Image Construction and Photoshop 1 hour
 ARTD 351 Motion Graphics 3 hours
 ARTD 360 Illustration I 3 hours
 ARTD 461 Illustration II 3 hours
 ARTD 462 Dimensional Illustration 3 hours
 ARTD 492 Portfolio Development 2 hours
 ARTS 112 Drawing II 3 hours
 ARTS 311 Figure Drawing I 3 hours

Choose three of the following:

9 hours required

ARTD 220 Typography 3 hours
 ARTD 250 Print and Packaging 3 hours

ARTD 393 Design in Practice 2-3 hours
ARTS 201 Beginning Painting 3 hours
ARTS 231 Beginning Printmaking 3 hours
ARTS 310 Watercolor I 3 hours
CINE 210 Storyboarding and Concept Design 3 hours
CINE 212 Introduction to Animation 3 hours
CINE 214 2D Computer Animation 3 hours

Bachelors of Fine Arts (BFA) in Interior Design

Overview

The Interior Design major educates students to become creative and responsible designers of residential and commercial spaces. Program components emphasize problem solving in applied design studios. With a focus on spatial design and space planning complimented by surface decoration, students learn to design environments for living, working, business, health, hospitality, retail and recreation. As courses progress, students are challenged by design problems that increase in size and complexity, and develop an understanding of sustainable building and reuse on human health, well-being and performance. Program curriculum and outcomes are all directly tied to NCIDQ Certification competencies, preparing students for future field certification.

Faculty

The versatile faculty is made up of artists and designers who actively produce and exhibit their creative work - artists who are leaders in their various fields of discipline. They love to teach because they love what they teach. Our faculty is equipped to motivate, inspire and nurture; they become true mentors to their students. The faculty of the Department of Art and Design believe it is necessary for students to become leaders rather than followers, to become the next generation of gifted creative artists and designers and to become art professionals in the ever-growing number of contemporary art and art-related careers.

More information about the interior design major can be found on the art major admissions page.

Program Objectives

Graduates with a BFA in interior design will:

- Demonstrate the ability to write and speak about art, design, and art history with clarity and logic, and be able to form and support critical judgements about art, design and art history
- Demonstrate the technical mastery of the relevant materials and tools, and the terminology, theories, and practices relevant to the student's field of study
- Demonstrate the ability generate, support, and utilize individual thoughts and ideas
- Demonstrate the ability to do research in art, design, and art history, and the competence and knowledge to analyze and think critically
- Demonstrate expanding knowledge of historical achievements and contemporary thinking, trends, processes, and issues in art and design, and apply that knowledge to their personal work
- Demonstrate broader and deeper understanding of contemporary arts practice, grasp of how to develop and maintain studio or design practice, and ideas communicating successful cultivation of both audience, concept and goals in visual art and design

Major Requirements

Art Core (18 hours)

Complete the following:

ARTD 110 Creative Suite 3 hours
ARTS 101 Basic Design 2-D 3 hours
ARTS 102 Basic Design 3-D 3 hours
ARTS 111 Drawing I 3 hours
ARTS 460 Art And Christ 3 hours

Choose one of the following:

ARTS 217 Art History Survey from 1450 3 hours
ARTS 382 Twentieth-Century Art 3 hours

Professional Networking Requirement (5 hours)

Complete the following:

ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 305 Art & Design Professional Networking Seminar 1 hour
ARTS 305 Art & Design Professional Networking Seminar 1 hour

Interior Design Requirements (41-43 hours)

Complete the following:

INTD 131 CADD I 3 hours
INTD 200 Interior Foundations 3 hours
INTD 210 Textiles Foundations 3 hours
INTD 212 Materials and Resources 3 hours
INTD 213 Lighting for Interiors 1.5-3 hours
INTD 220 Architectural Rendering 3 hours
INTD 300 Space Planning and Programming 3 hours
INTD 311 Detailing Interiors 3 hours
INTD 320 Informed Interior I: Building Systems 2 hours
INTD 321 Informed Interior II: Building Codes 2 hours
INTD 331 CADD II 1.5 hours
INTD 360 History of Art, Architecture and Furniture 3 hours
INTD 411 Residential Design Studio 3 hours
INTD 412 Commercial Design Studio 3 hours
INTD 431 Digital Construction Documentation Lab I 1 hour
INTD 432 Digital Construction Documentation Lab II 1 hour
INTD 475 Interior Design Internship 1-3 hours
INTD 492 Interior Design Professional Practice 2 hours

Bachelors (BA) in International Studies

Overview

The International Studies program prepares students to think and act as citizens of the world. The program integrates insights from multiple disciplines – economics, politics, geography, and religion, among others – in order to provide a rigorous education in the complex dynamics of an increasingly interdependent world. Graduates will be equipped with the skills necessary to effectively engage the world and its multitude of cultures, with foreign language capabilities, cross-cultural awareness and experience, and critical thinking and analysis.

The international studies major offers a 48- to 50-semester-hour course of study, preparing students for internationally focused careers in business, government, education, non-governmental organizations and church-related work such as missions. It also provides excellent preparation for graduate study in a variety of disciplines, including international relations, diplomacy and development, among others. The major includes a strong international fieldwork emphasis, with required cultural immersion and internship components. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in international studies will:

- Understand and explain the complexity of international affairs
- Communicate about global issues with Christian insight and wisdom
- Demonstrate preparedness to work, serve and learn in international contexts with sufficient global awareness
- Able to live skillfully and act sensitively in multicultural environments
- Act as people of influence in global spheres

Major Requirements

Required Courses (42-44)

Complete the following:

INTL 220 Intercultural Communication 3 hours
INTL 200 Cultural Geography and Global Relations 3 hours
INTL 230 Introduction to International Affairs 3 hours
INTL 260 Global Awareness Proseminar 1 hour
INTL 310 Cultural Anthropology 3 hours
INTL 330 Politics of the Developing World 3 hours
INTL 370 International Economic Development 3 hours
INTL 375 Cultural Immersion 8 hours
INTL 440 World Religions 3 hours
INTL 475 Internship 3 hours
INTL 490 International Studies Senior Seminar 3 hours

Complete the following:

The second year of a modern foreign language (6-8 hours)

Required Electives (6 hours)

Students must complete an additional 6-semester-hours from the following courses. The 3 hours from INTL 475 listed here is in addition to the 3 hours that are already required.

ECON 463 International Trade and Finance 3 hours

GBSN 300 Global Business 3 hours

HIST 250 Latin America 3 hours

HIST 340 History of the Middle East 3 hours

HIST 343 History of Southern Africa 3 hours

HIST 360 Modern Russia 3 hours

HIST 370 Modern China and Japan 3 hours

HIST 422 Europe: 1890-Present 3 hours

INTL 475 Internship 3 hours

LITR 238 Contemporary World Literature 3 hours

LITR 480 International Women's Voices 3 hours

PSCI 253 Introduction to Comparative Politics 3 hours

PSCI 303 International Conflict and Peace 3 hours

PSCI 383 International Organizations and International Law 3 hours

RELI 330 Introduction to the World Christian Movement 3 hours

RELI 360 Cross-Cultural Christian Outreach 3 hours

SPAN 350 Latin American Culture and Civilization 3 hours

Supporting Minors for International Studies

International studies is an interdisciplinary major designed for students with an interest in international vocations. Students taking this major as preparation for foreign missionary service or graduate studies in missions and intercultural concerns are encouraged to take a minor in the Christian Studies Department (in biblical studies, missions or religion). Students with interest in diplomacy or politics are encouraged to consider a minor in politics or peace studies. Those wishing to prepare for work in relief and development should consider a minor in management or economics.

Bachelors (BS) in Information Systems

Overview

The information systems major offers a 59-semester-hour course of study. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Major Requirements

Business Core (15 hours)

Complete the following:

BUSN 110 Introduction to Business 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
MGMT 260 Principles of Management 3 hours

Choose one of the following:

ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours

Computer Science Core (38 hours)

Complete the following:

CSIS 201 Intro to Computer Science 3 hours
CSIS 202 Intro to Computer Science II 3 hours
CSIS 304 Web-Based Programming 3 hours
CSIS 312 Computer Security and Digital Forensics 3 hours
CSIS 314 Client-Server Systems 3 hours
CSIS 321 Software Engineering 3 hours
CSIS 330 Human-Computer Interactions (HCI) 3 hours
CSIS 350 Data Communications and Networks 3 hours
CSIS 450 Network Administration 3 hours
ENGR 381 Servant Engineering I 2 hours
ENGR 382 Servant Engineering II 2 hours
ENGR 481 Senior Design I 1 hour
ENGR 482 Senior Design II 3 hours
MATH 260 Discrete Mathematics 3 hours

Electives (6 hours)

Students are required to complete an additional 6-hours of electives from the following subject areas: ACCT, BUSN, CSIS, MGMT, or MKTG coursework

Bachelors (BS) in Mathematics

Overview

The math major offers a 43- to 44-semester-hour course of study. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BS in mathematics will:

- Demonstrate computational competency including appropriate uses of technology
- Understand and appreciate applications of mathematics
- Be prepared for graduate study in mathematics
- Apply mathematical theory, concepts and methods of inquiry to advanced topics
- Understand the development of a mathematical system

Major Requirements

Core requirements (19 hours)

Complete the following:

CSIS 201 Intro to Computer Science 3 hours

MATH 201 Calculus I 4 hours

MATH 202 Calculus II 4 hours

MATH 290 Introduction to Proofs 3 hours

MATH 301 Calculus III 3 hours

MATH 490 Senior Seminar 2 hours

Sequences (18-19 hours)

Choose 3 of the following sequences

Sequence 1

MATH 311 Differential Equations with Linear Algebra 4 hours

MATH 312 Numerical Methods 3 hours

Sequence 2

MATH 331 Probability 3 hours

MATH 332 Mathematical Statistics 3 hours

Sequence 3

MATH 411 Advanced Linear Algebra 3 hours

MATH 412 Algebraic Structures 3 hours

Sequence 4

MATH 421 Real Analysis I 3 hours

MATH 422 Real Analysis II 3 hours

Electives (6 hours)

MATH electives 300-level or above 6 hours

Bachelors (BA) in Management

Overview

This major offers a 60-semester-hour course of study, intended to engage students in developing an understanding of management and leadership principles, including history and theory that are important for one to be an effective manager and leader in today's business world. This includes for-profit and not-for-profit organizations. Like other majors in the Department of Business and Economics, it requires completion of a general business core, as well as specialized courses. Students are required to obtain a minimum grade of C- in all major courses. Field experiences and internships are strongly encouraged.

Program Objectives

Graduates with a BA in management will:

- Develop an understanding of the role of management theories and behaviors in today's organization
- Communicate orally and in writing with effectiveness
- Understand the principles of effective leadership
- Demonstrate effective skill as a team member who serves both locally and globally
- Demonstrate the ability to identify ethical dilemmas and responsible courses of action

Major Requirements

Business Core (42 hours)

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours
ACCT 272 Principles of Managerial Accounting 3 hours
BUSN 110 Introduction to Business 3 hours
BUSN 120 Personal Finance 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
BUSN 360 Business Law 3 hours
BUSN 486 Strategic Management 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
FINC 260 Business Finance 3 hours
GBSN 300 Global Business 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Management Core (18 hours)

Complete the following:

ENPR 300 Entrepreneurship I 3 hours
MGMT 300 Leading and Managing People 3 hours
MGMT 440 International Management 3 hours
MGMT 450 Operations Management 3 hours
MGMT 480 Organizational Behavior 3 hours

Choose one of the following:

3 hours required

ECON 301 Intermediate Microeconomics 3 hours
ECON 410 Introduction to Applied Econometric 3 hours
ENPR 400 Entrepreneurship II 3 hours
FINC 300 Intermediate Financial Management 3 hours
MGMT 475 Field Experience 1-6 hours

Bachelors (BA) in Marketing

Overview

This major offers a 60-semester-hour course of study enabling students to acquire skills required to be a marketing professional. Courses cover topics such as target market analysis, customer need identification, communication strategies, research, product pricing and understanding international markets and cultures. These marketing foundations, along with the other complementary classes, will prepare students for career choices upon graduation that may include management-level jobs in marketing, sales, retail merchandising, promotions, product development, marketing research and international marketing. Like other majors in the College of Business, it requires completion of the general business core, as well as specialized courses. Students are required to obtain a minimum grade of C- in all major courses. Field experiences and internships are strongly encouraged.

Program Objectives

Graduates with a BA in marketing will:

- Critically evaluate each of the major steps in the marketing research process and to design, analyze and conduct a market-research project for an organization
- Demonstrate analytical skills through gathering and assessing relevant information, and by coming to well-reasoned conclusions and solutions
- Display strong interpersonal abilities in writing, through presentations, and via business networking opportunities
- Appreciate the contribution of consumer behavior to developing good marketing practice and understand consumer and business decision making, along with consumption activities and experiences
- Evaluate the effectiveness of marketing communications and to design, implement and effectively communicate marketing communication plans

Major Requirements

Business Core (42 hours)

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours
ACCT 272 Principles of Managerial Accounting 3 hours
BUSN 110 Introduction to Business 3 hours
BUSN 120 Personal Finance 3 hours
BUSN 240 Business Statistics 3 hours
BUSN 290 Business Ethics 3 hours
BUSN 360 Business Law 3 hours
BUSN 486 Strategic Management 3 hours
ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
FINC 260 Business Finance 3 hours

GBSN 300 Global Business 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Marketing Core (18 hours)

Complete the following:

MKTG 300 Consumer Behavior 3 hours
MKTG 360 Digital Marketing 3 hours
MKTG 420 Marketing Communications 3 hours
MKTG 450 Marketing Research and Decision Making 3 hours
MKTG 480 Marketing Management and Strategy 3 hours

Choose one of the following:

3 hours required

MKTG 475 Field Experience 1-6 hours
MKTG 485 Selected Topics 1-3 hours
ARTD 240 Graphic Design/Visual Communication for Non-Majors 3 hours

Bachelors (BA) in Music

Overview

The music major offers a 40.5- to 52.5-semester-hour course of study. Students are required to obtain a minimum grade of C- in all courses taken for the major.

The music major consists of a music core required of all majors, plus one of four concentrations: composition, general, performance or preteaching. The preteaching concentration in music prepares the student to take the Oregon Praxis Examination in music as preparation for application to George Fox University's Master of Arts in Teaching program or another similar program.

Program Objectives

Graduates with a BA in music will:

- Understand the role of the music educator and the components of an effective school music program
- Demonstrate pedagogical competency on all wind, string and percussion instruments as well as competency in vocal pedagogy and production
- Demonstrate the basic skills of conducting, including basic meters, compound meters, mixed meters, cueing, cut-offs, dynamics, tempos and fermatas
- Explore the nuance and artistry of advanced conducting
- Apply their knowledge of elementary music curriculum and methods in the music classroom
- Apply their knowledge of secondary curriculum and methods in the secondary classroom

Major Requirements

Music Core (42.5-43 hours)

Complete the following:

MUSI 121 Theory I 3 hours

MUSI 122 Theory II 3 hours

MUSI 130 Music in World Cultures 2 hours

MUSI 131 Sight Singing and Ear Training I 1 hour

MUSI 132 Sight Singing and Ear Training II 1 hour

MUSI 180 Introduction to Music Technology 2 hours

MUSI 221 Theory III 4 hours

MUSI 222 Theory IV 4 hours MUSI

311 Music History I 3 hours MUSI 312

Music History II 3 hours MUSI 320

Form And Analysis 2 hours

MUSI 400 Music and Christian Faith 2 hours

MUSI 481 Degree Recital/Project 1 .5 hours

MUSI 482 Degree Recital/Project 2 .5 hours

MUSA requirements Applied Music and Ensemble Courses 8 hours

Credit for Applied Lessons and Ensemble Courses

Applied lessons: Students must enroll for one 60-minute applied lesson per week for 1 credit, with 13 lessons per semester. Although individual applied instructors' studio policies vary, a minimum of ten hours of practice per week is assumed.

Ensemble courses: Students may enroll for ensembles for credit as follows:

- Major ensembles (Concert Choir MUSA125C/325C, Symphonic Band MUSA145B/345B and George Fox University Symphony Orchestra MUSA155/355) may be taken for 0, 1 or 2 credits. These ensembles rehearse between 120 and 300 minutes per week and have substantial involvement outside of class time.
- Other ensembles may be taken for 0 or 1 credit. These ensembles rehearse less time per week and have less out-of-class involvement.
- The zero-credit option is available so that students can participate in ensembles and still have it show on their college transcripts.

Choose one of the following:

MUSI 200 Basic Conducting 1.5 hours

MUSI 460 Advanced Conducting 2 hours

Additional Requirements

Piano Proficiency

Students are also required to pass a piano proficiency examination **prior** to their junior or half-recital hearing. Students are required to register for MUSA 105/305 Applied Piano (0.5-1) or MUSI 135 Class Piano (1) in the piano proficiency specific sections until the proficiency has been met.

Ensemble Requirement

Music majors must be enrolled in a major ensemble each semester (George Fox University Symphony Orchestra, Concert Choir, Chorale, Keyboard Ensemble or Symphonic Band is required in addition to other ensembles).

Applied Music Jury and Upper Division Standing

All students enter the applied program at the 100 level. Before being advanced to upper-division study, the student must pass a faculty jury. All applied music students are expected to perform periodically in studio or public recitals, but only students who have advanced to upper-division study levels will be permitted to present a half or full recital. (For additional information, please see Applied Lessons Policy below.)

Recital requirement and Upper Division Standing

A solo recital and achievement of upper-division standing is required of all students. The recital is given in the junior or senior year after the student has been granted upper-division standing and has passed a recital hearing given before the applied music faculty.

Concentrations (0-12 hours) - choose one

Composition (12 hours)

Complete the following:

MUSI 310 Counterpoint 2 hours

MUSI 430 Instrumentation and Orchestration 2 hours

Students must complete 8 semester hours of Composition

(two semesters of MUSI 225 and four semesters of MUSI 425)

MUSI 225 Composition 1 hour

MUSI 225 Composition 1 hour

MUSI 425 Composition 1.5 hours

MUSI 425 Composition 1.5 hours

MUSI 425 Composition 1.5 hours

MUSI 425 Composition 1.5 hours

Full Degree Recital performed with up to 50 minutes of original music

General (5 hours)

Students must take 5 semester hours of music theory and literature (MUSI) courses, at least 3 of which must be upper division.

Half Recital/Project performed during junior or senior year.

Performance

Half Recital performed during junior year

Full Degree Recital performed during senior year

Professional Development Requirement to be completed over a four-year program

- Professional Masterclass in performance area (one per year)
- Bosendorfer Series (one per year – on campus)
- Studio Masterclass/Performance Class (two per year – four are offered)
- Students in Recital (four per year – attend all and perform in at least one per semester)
- Audition for the Honors Recital at least two times in four years

Preteaching (11 hours)

Complete the following:

EDUC 250 Teaching as a Profession 2 hours MUSI

270 Music Techniques Instrumental I 1 hour MUSI

271 Music Techniques Instrumental II 1 hour MUSI

272 Music Techniques Vocal 1 hour

MUSI 410 Elementary Music Methods 3 hours

MUSI 411 Middle Level and High School Music Methods 3 hours

Half Recital performed during junior or senior year

Professional Development Requirement to be completed over a four-year program

- Conferences (attend a minimum of two – State or Regional/NW)
- On-campus activities (serve at two every year – Choral Symposium, Choral Festival, Band Festival and Band Clinic)
- OSAA State Choir or Band Festival/Clinic (serve at one event)
- Workshops/Festivals (attend three approved events – may substitute an ensemble officer position for one event)
- Field Supervision – STRONGLY recommended (one full semester experience which includes classroom observation and a K-12 school concert)
- Membership and active participation in CMENC activities

Applied Lessons Policy

Individual instruction is offered in voice, piano, organ, strings, woodwinds, brass, percussion, drum set, bass guitar, and guitar. Music majors are required to enroll in applied music lessons each semester.

Each semester will include:

- Thirteen 60-minute lessons
- The one-hour applied lesson must be taken on the student's major instrument or voice. Splitting this requirement into two 30-minute lesson would not fulfill the NASM requirement.
- A jury (on the Monday of each final exam week)
- A minimum of 10 lessons (or roughly 75 percent of the lessons) must be attended by a student in order to receive a passing grade in applied music.
- Incomplete grades will only be given for applied lessons with instructor approval. (Further instruction fees may apply.)

Students are charged an additional instructional fee each semester per credit. Each half-credit reflects 13 30-minute lessons.

Lessons will be made up if the teacher had to be absent or a student was unable to come to a lesson due to extended illness (with the appropriate nurse's or doctor's verification). It is the responsibility of the teacher or student to notify the other in advance if a lesson cannot be attended. Make-up lessons for any other reasons generally will not be given.

Through the second full week of lessons in each semester, students may discontinue study and be charged only for the number of scheduled lessons to date. Any of the lessons missed during the two-week period because of an extended illness will be made up. Any lesson missed because the teacher had to be absent will also be made up. Any lessons missed without a valid reason, as stated above, will not be made up but will still be charged to the student's account.

Students who discontinue lessons after the end of the second week may officially withdraw during the withdraw period. However, they will forfeit the instructional fee charged for the entire semester. The applied teacher will receive the total amount. One exception to this manner of dealing with charges is when students are incapacitated or have an official doctor's order to discontinue study (legitimate examples include a drummer who breaks an arm or a vocalist who develops vocal nodules and must be silent for a significant period of time). Any refund in these special cases will be given only for the remaining weeks of study after the student has met with the applied instructor.

All students enter the applied program at the 100 level. Before being advanced to upper-division study, the student must pass a faculty jury. All applied music students are expected to perform periodically in studio or public recital, but only students who have advanced to upper-division study levels will be permitted to present a half or full recital. These recitals may be given only by permission after the student has performed the recital repertoire in a faculty hearing.

The transfer student and/or a current GFU student who change to a Music major in their sophomore or junior year will still need to complete the 8-hours of applied lesson requirement, in order to prepare for the degree recital(s) and must be enrolled in ensemble(s) immediately.

Bachelors (BA) in Music Education

Overview

The music education major offers a 84- to 84.5-semester-hour course of study that is designed to prepare students for pre-K-12 music education. Students are required to obtain a minimum grade of C- in all courses taken for the major. For music education admissions requirements contact the Teacher Education Department.

Program Objectives

Graduates with a BA in music education will:

- Understand the role of the music educator and the components of an effective school music program
- Demonstrate pedagogical competency on all wind, string and percussion instruments as well as competency in vocal pedagogy and production
- Demonstrate the basic skills of conducting, including basic meters, compound meters, mixed meters, cueing, cut-offs, dynamics, tempos and fermatas
- Explore the nuance and artistry of advanced conducting
- Apply their knowledge of elementary music curriculum and methods in the music classroom
- Apply their knowledge of secondary curriculum and methods in the secondary classroom

Major Requirements

Music Core (40.5 hours)

Complete the following:

MUSI 121 Theory I 3 hours

MUSI 122 Theory II 3 hours

MUSI 130 Music in World Cultures 2 hours

MUSI 131 Sight Singing and Ear Training I 1 hour

MUSI 132 Sight Singing and Ear Training II 1 hour

MUSI 180 Introduction to Music Technology 2 hours

MUSI 200 Basic Conducting 1.5 hours

MUSI 221 Theory III 4 hours

MUSI 222 Theory IV 4 hours

MUSI 311 Music History I 3 hours

MUSI 312 Music History II 3 hours

MUSI 320 Form And Analysis 2 hours

MUSI 400 Music and Christian Faith 2 hours

MUSI 481 Degree Recital/Project 1 .5 hours

MUSI 482 Degree Recital/Project 2 .5 hours

MUSA requirements Applied Music and Ensemble Courses 8 hours

Credit for Applied Lessons and Ensemble Courses

Applied lessons: Students may enroll for either one 60-minute applied lesson per week for 1 credit, with 13 lessons per semester. Although individual applied instructors' studio policies vary, a minimum of three hours practice per week is assumed.

Ensemble courses: Students may enroll for ensembles for credit as follows:

- Major ensembles (Concert Choir MUSA125C/325C, Symphonic Band MUSA145B/345B and George Fox University Symphony Orchestra MUSA155/355) may be taken for 0, 1 or 2 credits. These ensembles rehearse between 120 and 300 minutes per week and have substantial involvement outside of class time.
- Other ensembles may be taken for 0 or 1 credit. These ensembles rehearse less time per week and have less out-of-class involvement.
- The zero-credit option is available so that students can participate in ensembles and still have it show on their college transcripts.

Professional Courses (41 hours)

Complete the following:

EDUC 260 Teaching, Schooling and Learning 4 hours
EDUC 371 Curriculum Design with ESOL 4 hours
EDUC 375 Practicum I 4 hours
EDUC 381 Classroom Management 2 hours
EDUC 475 Practicum II 10 hours
EDUC 490 Senior Seminar 2 hours
MUSI 190 Foundations of Music Education 1 hour
MUSI 410 Elementary Music Methods 3 hours
MUSI 411 Middle Level and High School Music Methods 3 hours
MUSI 460 Advanced Conducting 2 hours
PSYC 150 General Psychology 3 hours
PSYC 310 Lifespan Human Development 3 hours

Additional Requirements

Ensemble Requirement

MUSA 105/305 Applied Music (eight consecutive semesters)

MUSA Major Ensemble coursework (seven consecutive semesters of George Fox University Symphony Orchestra, Concert Choir, Chorale, Keyboard Ensemble or Symphonic Band is required in addition to other ensembles)

Applied Music Jury and Upper Division Standing

All students enter the applied program at the 100 level. Before being advanced to upper-division study, the student must pass a faculty jury. All applied music students are expected to perform periodically in studio or public recitals, but only students who have advanced to upper-division study levels will be permitted to present a half recital. (For additional information, please see Applied Lessons Policy below.)

Recital requirement and Upper Division Standing

A solo recital and achievement of upper-division standing is required of all students. The recital is given in the junior or senior year after the students has been granted upper-division standing and has passed a recital hearing given before the applied music faculty. Music education majors may not perform their recital during their student teaching.

Professional Development Requirement

To be completed over a four-year program.

- Conferences (attend a minimum of two – State or Regional/NW)
- On-Campus Activities (serve at two every year – Choral Symposium, Choral Festival, Band Festival and Band Clinic)
- OSA State Choir or Band Festival/Clinic (serve at one event)
- Workshops/Festivals (attend three approved events – may substitute an ensemble officer position for one event)
- Field Supervision – **STRONGLY** recommended (one full semester experience which includes classroom observation and a K-12 school concert)
- Membership and active participation in CMENC activities
- Lab Ensembles (conducting and participation is required a total of three times with one in the freshman, sophomore and junior years)

Tracks (2.5-3 hours) - choose one

Instrumental Track

Complete the following:

MUSI 270 Music Techniques Instrumental I 1 hour

MUSI 271 Music Techniques Instrumental II 1 hour

Choose one of the following:

MUSA 105VC Applied Voice .5-1 hours

MUSI 125 Voice Class 1 hour

Choral Track

Complete the following:

MUSI 272 Music Techniques Vocal 1 hour

MUSI 273 Instrumental Music Techniques for Choral Conductors 1 hour

Choose one of the following:

MUSI 250 Class Guitar 1 hour

MUSI 280 Vocal Diction 1 hour

Applied Lessons Policy

Individual instruction is offered in voice, piano, organ, strings, woodwinds, brass, percussion, drum set, bass guitar, and guitar. Music majors are required to enroll in applied music lessons each semester.

Each semester will include:

- Thirteen 60-minute lessons
- The one-hour applied lesson must be taken on the student's major instrument or voice. Splitting this requirement into two 30-minute lesson would not fulfill the NASM requirement.
- A jury (on the Monday of each final exam week)
- A minimum of 10 lessons (or roughly 75 percent of the lessons) must be attended by a student in order to receive a passing grade in applied music.
- Incomplete grades will only be given for applied lessons with instructor approval. (Further instruction fees may apply.)

Students are charged an additional instructional fee each semester per credit. Each half-credit reflects 13 30-minute lessons.

Lessons will be made up if the teacher had to be absent or a student was unable to come to a lesson due to extended illness (with the appropriate nurse's or doctor's verification). It is the responsibility of the teacher or student to notify the other in advance if a lesson cannot be attended. Make-up lessons for any other reasons generally will not be given.

Through the second full week of lessons in each semester, students may discontinue study and be charged only for the number of scheduled lessons to date. Any of the lessons missed during the two-week period because of an extended illness will be made up. Any lesson missed because the teacher had to be absent will also be made up. Any lessons missed without a valid reason, as stated above, will not be made up but will still be charged to the student's account.

Students who discontinue lessons after the end of the second week may officially withdraw during the withdraw period. However, they will forfeit the instructional fee charged for the entire semester. The applied teacher will receive the total amount. One exception to this manner of dealing with charges is when students are incapacitated or have an official doctor's order to discontinue study (legitimate examples include a drummer who breaks an arm or a vocalist who develops vocal nodules and must be silent for a significant period of time). Any refund in these special cases will be given only for the remaining weeks of study after the student has met with the applied instructor.

All students enter the applied program at the 100 level. Before being advanced to upper-division study, the student must pass a faculty jury. All applied music students are expected to perform periodically in studio or public recital, but only students who have advanced to upper-division study levels will be permitted to present a half or full recital. These recitals may be given only by permission after the student has performed the recital repertoire in a faculty hearing.

The transfer student and/or a current GFU student who change to a Music major in their sophomore or junior year will still need to complete the 8-hours of applied lesson requirement, in order to prepare for the degree recital(s) and must be enrolled in ensemble(s) immediately.

Bachelors (BA) in Interdisciplinary Studies: Music

Major Requirements

An interdisciplinary studies major may be elected through application and approval of the music faculty. The student must show how the proposed major meets reasonable academic and vocational objectives. An interdisciplinary studies major in music consists of 48 semester hours – 24 semester hours as specified by music faculty and 24 semester hours in another major field. Many creative options are possible. Common majors include music and biblical studies, or music and Christian ministries.

Bachelors of Science in Nursing (BSN)

Overview

The nursing major offers a 97-semester-hour course of study that is designed to prepare students to function in increasingly complicated health care environments. Students are required to obtain a minimum grade of C in all courses taken for the major.

Program Objectives

Graduates with a BSN will:

- Integrate concepts from liberal arts and sciences in promoting health and delivering individualized care
- Utilize standards of nursing practice and current science to deliver safe, competent, patient-centered care to patients across the lifespan in a variety of settings
- Integrate evidence, clinical judgment, and patient preferences throughout the nursing process
- Apply information management and technology across the health continuum to facilitate high-quality nursing care
- Demonstrate basic knowledge of healthcare policy, finance, and regulatory agencies, including domestic and global healthcare trends
- Use communication, collaboration, and organizational skills to work in partnerships with clients, families, communities, and the interprofessional healthcare team to promote health
- Employ principles of leadership to support quality improvement, safety, and cost containment initiatives in a variety of settings
- Demonstrate professional values that integrate lifelong learning, service, and reflective practice
- Provide evidence-based nursing care that incorporates diversity, human dignity, and cultural humility
- Provide holistic, empathetic nursing care that reflects the character and compassion of Christ

Major Requirements

Prerequisite Coursework for Admission (21 hours)

Complete the following:

BIOL 221 Human Anatomy and Physiology I 4 hours
BIOL 222 Human Anatomy and Physiology II 4 hours
CHEM 151 General, Organic, and Biochemistry 4 hours
COMM 100 Introduction to Communication 3 hours
MATH 180 College Algebra 3 hours
PSYC 150 General Psychology 3 hours

Required Courses (13 hours)

Complete the following:

BIOL 367 Essentials of Microbiology 4 hours
HUMA 205 Philosophy and Literature 3 hours
PSYC 310 Lifespan Human Development 3 hours

Choose one of the following:

MATH 240 Statistical Procedures 3 hours
PSYC 240 Statistical Procedures 3 hours
SOC1 340 Statistical Procedures 3 hours

Nursing Core (63 hours)

Complete the following:

NURS 201 Nursing Fundamentals 5 hours
NURS 204 Introduction to Nursing Professional Practice 2 hours
NURS 210 Health Assessment 2 hours
NURS 301 Nursing Care of Adults with Acute Conditions 7 hours
NURS 302 Nursing Care of Adults with Complex Conditions 7 hours
NURS 311 Pathophysiology 3 hours
NURS 312 Pharmacology 3 hours
NURS 313 Nutrition Essentials for Nursing Practice 3 hours
NURS 324 Evidence-based Nursing for Clinical Practice 2 hours
NURS 370 Nursing Care of Children and Families 3 hours
NURS 411 Mental Health Nursing 5 hours
NURS 421 Nursing Care of the Childbearing Family 6 hours
NURS 430 Population Health Nursing 6 hours
NURS 442 Nursing Leadership and Management 2 hours
NURS 452 Gerontological Nursing 2 hours
NURS 490 Nursing Capstone 5 hours

Bachelors (BA) in Philosophy

Overview

The philosophy major offers a 39-40-semester-hour course of study that is designed to prepare students to think well and communicate clearly. A classic liberal arts major, philosophy prepares students for a wide variety of options in graduate school, including history, law, law enforcement, literature, philosophy and theology. Skills in critical thinking and clear communication also prepare students well for careers in business and industry. Most important, philosophical skills are central to the active life of the mind. Students are required to obtain a minimum grade of C- in all courses taken for the major. A minimum of 21 semester hours must be upper-division courses.

Program Objectives

Graduates with a BA in philosophy will:

- Understand important concepts, theories and skills of philosophy and describe how they interact with the content of disciplines outside of philosophy
- Demonstrate effective writing skills in philosophical essays and in on-the-job internship situations
- Apply critical skills from the philosophy curriculum to make decisions and solve problems
- Analyze, evaluate and integrate ideas from a variety of sources both in written essays and speech

Major Requirements

Philosophy Core (27 hours)

Complete the following:

PHIL 150 Introduction to Philosophy 3 hours
PHIL 180 Ethics 3 hours
PHIL 250 Thinking Well: Logic and Life 3 hours
PHIL 277 Spirituality and the Intellectual Life 3 hours
PHIL 311 History 1: Ancient and Medieval Philosophy 3 hours
PHIL 312 History 2: Modern and Postmodern Philosophy 3 hours
PHIL 490 Philosophy Capstone 3 hours

Complete the following:

Colloquim courses

PHIL 214 Philosophy Colloquium 1 hour
PHIL 314 Philosophy Colloquium 1 hour
PHIL 414 Philosophy Colloquium 1 hour

Choose one of the following:

PHIL 415 Contemporary Philosophers 3 hours

PHIL 435 Contemporary Problems 3 hours

Specialization Tracks (12-13 hours) - choose one

Students must choose one of the specializations below and take the courses associated with it. Possible electives to meet the total 12-13 semester hours are listed below the tracks.

Creation Care

Complete the following:

BIOL 120 Environmental Science 4 hours

PHIL 320 Agrarian Philosophy: Life and Land 3 hours

PHIL Philosophy Elective Coursework 6 hours

Graduate School

Complete the following:

PHIL 270 Philosophy of the Arts 3 hours

PHIL 332 Virtue Philosophy 3 hours

PHIL Philosophy Elective Coursework 6 hours

Pre-Law

Complete the following:

PHIL 280 Introduction to Political Philosophy 3 hours

PHIL 330 Religion and Reason 3 hours

PSCI 260 Introduction to Law 3 hours

PHIL Philosophy Elective Coursework 3 hours

Pre-Med

Complete the following:

PHIL 330 Religion and Reason 3 hours

Choose one of the following:

PHIL 331 Ethical Issues 3 hours

PHIL 332 Virtue Philosophy 3 hours

Choose one of the following:

CHEM 331 Organic Chemistry I 4 hours

PHYS 201 General Physics 4 hours

MATH 201 Calculus I 4 hours

Complete the following:

PHIL Philosophy Elective Coursework 3 hours

Pre-Seminary

Complete the following:

PHIL 310 Christian Apologetics 3 hours

RELI 380 Christian Beliefs 3 hours

Choose one of the following:

PHIL 331 Ethical Issues 3 hours

PHIL 332 Virtue Philosophy 3 hours

Complete the following:

PHIL Philosophy Elective Coursework 3 hours

Social Justice

Choose one of the following:

PHIL 331 Ethical Issues 3 hours

PHIL 332 Virtue Philosophy 3 hours

Choose one of the following:

PHIL 313 Feminist Philosophy 3 hours

PHIL 320 Agrarian Philosophy: Life and Land 3 hours

PHIL 373 Social Theory 3 hours

PHIL 380 Gender Theory 3 hours

Choose one of the following:

BIBL 390 Biblical Basis for Peacemaking 3 hours

PHIL 280 Introduction to Political Philosophy 3 hours

PHIL 300 American Political Theory 3 hours

Complete the following:

PHIL 475 Field Experience 3 hours required in an appropriate social service setting.

Specialized

Complete the following:

Coursework determined in consultation with department. 12 hours required

The track must include a methodology course and an upper-division content course.

Bachelors (BA) in Politics

Overview

The politics major offers a 36-semester-hour course of study. A minimum of 21 semester hours must be upper-division courses. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in politics will:

- Have a deep understanding of American politics, international relations, comparative politics, political theory and peace studies
- Think critically about the relationship of faith and politics
- Critically analyze data
- Communicate orally and in writing effectively

Major Requirements

Politics Core (12-15 hours)

Complete the following:

PSCI 150 Introduction to Political Science 3 hours
PSCI 275/475 Field Experience 3-6 hours
PSCI 290 Political Science Research and Writing 3 hours
PSCI 490 Senior Seminar 3 hours

American Government (3 hours)

Choose one of the following:

PSCI 190 American Government 3 hours
PSCI 240 State and Local Government 3 hours
PSCI 320 Constitutional Law: Issues of National Power 3 hours
PSCI 353 Constitutional Law: Civil Rights and Liberties 3 hours
PSCI 354 Christianity and Politics in America 3 hours
PSCI 450 Campaigns and Elections 3 hours

Comparative Government (3 hours)

Choose one of the following:

PSCI 253 Introduction to Comparative Politics 3 hours
PSCI 330 Politics of the Developing World 3 hours

International Relations (3 hours)

Choose one of the following:

PSCI 230 Introduction to International Affairs 3 hours
PSCI 303 International Conflict and Peace 3 hours
PSCI 343 Environmental Politics and Policies 3 hours
PSCI 380 American Foreign Policy 3 hours
PSCI 383 International Organizations and International Law 3 hours

Political Theory (3 hours)

Choose one of the following:

PSCI 280 Introduction to Political Philosophy 3 hours
PSCI 300 American Political Theory 3 hours

Peace Studies (3 hours)

Choose one of the following:

PSCI 310 Conflict Resolution 3 hours
PSCI 363 War and Conscience in the United States 3 hours
PSCI 410 Community Mediation 3 hours
PSCI 460 Peace Theory 3 hours

Electives (6-9 hours)

Choose one of the following:

In addition to the courses listed above, students may select from the following courses to bring the total to 36 semester hours.

ECON 370 International Economic Development 3 hours
PSCI 260 Introduction to Law 3 hours
PSCI 285 Selected Topics 1-3 hours
PSCI 485 Selected Topics 1-3 hours
PSYC 240 Statistical Procedures 3 hours

Bachelors (BA) in Psychology

Overview

This major offers a 50-semester-hour course of study, designed to acquaint students with the field of psychology and the implications of its principles for human behavior. The bachelor of arts degree has a greater emphasis on applied learning than does the bachelor of science. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in psychology will:

- Understand the major concepts, theoretical perspectives, empirical findings and historical trends in psychology
- Apply basic research methods in psychology, including research design, data analysis and interpretation
- Apply critical and creative thinking, skeptical inquiry, and the scientific approach to solve problems related to behavior and mental processes
- Apply psychological principles to personal, social and organizational issues
- Weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline
- Reflect on their personal faith and explain how it interacts with the discipline of psychology

Major Requirements

Core (23 hours)

Complete the following:

PSYC 150 General Psychology 3 hours
PSYC 220 Biological Psychology 3 hours
PSYC 240 Statistical Procedures 3 hours
PSYC 290 Professional Seminar 1 hour
PSYC 350 Social Psychology 3 hours
PSYC 370 Cognition 3 hours
PSYC 391 Research Methods 3 hours
PSYC 450 History and Systems of Psychology 3 hours
PSYC 490 Senior Seminar 1 hour

Required Electives (27 hours)

Choose one of the following:

PSYC 330 Personality Theory 3 hours
PSYC 331 Positive Psychology 3 hours
PSYC 353 Culture and Psychology 3 hours

Choose one of the following:

PSYC 311 Child Development 3 hours
PSYC 312 Adult Development 3 hours
PSYC 314 Adolescent Development 3 hours

Choose one of the following:

PSYC 381 Counseling 3 hours
PSYC 400 Psychological Testing 3 hours
PSYC 420 Abnormal Psychology 3 hours
PSYC 430 Addictions 3 hours

Choose one of the following:

PSYC 320 Neuroscience 3 hours
PSYC 360 Learning 3 hours
PSYC 410 Sensation and Perception 3 hours

Choose 3 hours of the following:

PSYC 475 Field Experience 1-10 hours
PSYC 495 Individualized Study 1-3 hours

Choose 12 hours of the following:

PSYC Psychology Coursework 12 hours

Bachelors (BS) in Psychology

Overview

This major offers a 50-semester-hour course of study, designed to acquaint students with the field of psychology and the implications of its principles for human behavior. The bachelor of science degree has a greater emphasis on scientific methodology than does the bachelor of arts. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BS in psychology will:

- Understand the major concepts, theoretical perspectives, empirical findings and historical trends in psychology
- Apply basic research methods in psychology, including research design, data analysis and interpretation
- Apply critical and creative thinking, skeptical inquiry, and the scientific approach to solve problems related to behavior and mental processes
- Apply psychological principles to personal, social and organizational issues
- Weigh evidence, tolerate ambiguity, act ethically, and reflect other values that are the underpinnings of psychology as a discipline
- Reflect on their personal faith and explain how it interacts with the discipline of psychology

Major Requirements

Core (26 hours)

Complete the following:

PSYC 150 General Psychology 3 hours
PSYC 220 Biological Psychology 3 hours
PSYC 240 Statistical Procedures 3 hours
PSYC 290 Professional Seminar 1 hour
PSYC 350 Social Psychology 3 hours
PSYC 370 Cognition 3 hours
PSYC 391 Research Methods 3 hours
PSYC 392 Advanced Research Methods 3 hours
PSYC 450 History and Systems of Psychology 3 hours
PSYC 490 Senior Seminar 1 hour

Required Electives (24 hours)

Choose one of the following:

PSYC 330 Personality Theory 3 hours
PSYC 331 Positive Psychology 3 hours
PSYC 353 Culture and Psychology 3 hours

Choose one of the following:

PSYC 311 Child Development 3 hours
PSYC 312 Adult Development 3 hours
PSYC 314 Adolescent Development 3 hours

Choose one of the following:

PSYC 381 Counseling 3 hours
PSYC 400 Psychological Testing 3 hours
PSYC 420 Abnormal Psychology 3 hours

Choose one of the following:

PSYC 320 Neuroscience 3 hours
PSYC 360 Learning 3 hours
PSYC 410 Sensation and Perception 3 hours

Choose 12 hours of the following:

PSYC Psychology Coursework 12 hours

Bachelors (BA) in Studio Arts

Overview

The studio art major fosters the development of collaborative, resourceful and creative makers who work in a research-based practice informed by contemporary and historical art and culture. Students work in a variety of two-, three-, and four-dimensional media, including, but not limited to sculpture, painting, drawing, photography and lens-based media, print media and utilitarian ceramics.

Emphasis is placed on critical thinking, problem solving, and risk-taking throughout the program, encouraging students to develop the confidence to experiment and self-reliance to become courageous life-long learners. Instruction in the technical competencies and skills of the studio practice partnered with conceptual strengthening projects and polished off with professional and business practice capstone work to send out emergent practitioners out equipped for a life of successful creating and earning.

Faculty

The versatile faculty is made up of artists and designers who actively produce and exhibit their creative work - artists who are leaders in their various fields of discipline. They love to teach because they love what they teach. Our faculty is equipped to motivate, inspire and nurture; they become true mentors to their students. The faculty of the Department of Art and Design believe it is necessary for students to become leaders rather than followers, to become the next generation of gifted creative artists and designers and to become art professionals in the ever-growing number of contemporary art and art-related careers.

More information about the studio arts major can be found on the art major admissions page.

Program Objectives

Graduates with a BA in studio arts will:

- Demonstrate the ability to write and speak about art, design, and art history with clarity and logic, and be able to form and support critical judgements about art, design and art history
- Demonstrate the technical mastery of the relevant materials and tools, and the terminology, theories, and practices relevant to the student's field of study
- Demonstrate the ability generate, support, and utilize individual thoughts and ideas
- Demonstrate the ability to do research in art, design, and art history, and the competence and knowledge to analyze and think critically
- Demonstrate expanding knowledge of historical achievements and contemporary thinking, trends, processes, and issues in art and design, and apply that knowledge to their personal work
- Demonstrate broader and deeper understanding of contemporary arts practice, grasp of how to develop and maintain studio or design practice, and ideas communicating successful cultivation of both audience, concept and goals in visual art and design

Major Requirements

Art Core (15 hours)

Complete the following:

ARTS 101 Basic Design 2-D 3 hours
ARTS 102 Basic Design 3-D 3 hours
ARTS 111 Drawing I 3 hours
ARTS 217 Art History Survey from 1450 3 hours
ARTS 460 Art And Christ 3 hours

Professional Networking Requirement (5 hours)

Complete the following:

ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 305 Art & Design Professional Networking Seminar 1 hour
ARTS 305 Art & Design Professional Networking Seminar 1 hour

Studio Arts Core (21 hours)

Complete the following:

ARTS 112 Drawing II 3 hours
ARTS 216 Art History Survey to 1450 3 hours
ARTS 355 Topics in Art History 3 hours
ARTS 382 Twentieth-Century Art 3 hours
ARTS 384 Contemporary Art Forms 3 hours
ARTS 491 Senior Thesis I 3 hours
ARTS 492 Senior Thesis II 3 hours

Required Electives (15 hours)

Choose five of the following:

ARTS 201 Beginning Painting 3 hours
ARTS 221 Beginning Sculpture 3 hours
ARTS 230 Beginning Photography 3 hours
ARTS 231 Beginning Printmaking 3 hours
ARTS 240 Beginning Mixed Media 3 hours
ARTS 241 Beginning Ceramics 3 hours
ARTS 301 Intermediate Painting 3 hours
ARTS 310 Watercolor I 3 hours
ARTS 321 Intermediate Sculpture 3 hours
ARTS 330 Intermediate Photography 3 hours
ARTS 331 Intermediate Printmaking 3 hours
ARTS 340 Intermediate Mixed Media 3 hours
ARTS 341 Intermediate Ceramics 3 hours
ARTS 345 Selected Studio Media 3 hours

ARTS 401 Advanced Painting 3 hours
ARTS 410 Watercolor II 3 hours
ARTS 421 Advanced Sculpture 3 hours
ARTS 430 Advanced Photography 3 hours
ARTS 431 Advanced Printmaking 3 hours
ARTS 440 Advanced Mixed Media 3 hours
ARTS 441 Advanced Ceramics 3 hours

Bachelors (BA) in Sociology

Overview

The primary mission of the sociology major (39-40 credits) is to develop students to thoughtfully engage in civic, occupational, academic, and personal endeavors from a Christian sociological perspective. The major facilitates this by preparing students to critically analyze social institutions and structures, empowering students to be change agents capable of bringing about greater social justice. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in sociology will:

- Demonstrate an understanding of the role of theory in building sociological knowledge and basic theoretical orientations
- Analyze data and learn how to apply basic sociological methods of research
- Identify and apply basic concepts in sociology and their fundamental theoretical interrelations, including culture, social change, socialization, stratification, social structure and institutions
- Evaluate the reciprocal relationships between individuals and society, and how the self develops under the influence of societal and structural factors
- Analyze the internal diversity of American society and its place in the international context, including the race, class, gender and age of its population
- Evaluate the potential usefulness of sociological theory and methods to promote peace and justice in social institutions and structures
- Integrate sociological insights with Christian commitments and calling

Major Requirements

Core Requirements (24 hours)

Complete the following:

SOCI 150 Principles of Sociology 3 hours
SOCI 340 Statistical Procedures 3 hours
SOCI 363 Social Inequality 3 hours
SOCI 373 Social Theory 3 hours
SOCI 380 Race and Ethnicity 3 hours
SOCI 390 Research Methods 3 hours
SOCI 475 Internship 3-6 hours
SOCI 480 Senior Research Project 3 hours

Concentrations (15-16 hours) - choose one

General (15 hours)

Complete the following:

SOCI Sociology Coursework 15 hours

Students choosing to take SOCI 230/430 Sociology of Religion must register for the upper-division options (SOCI 430).

Global and Intercultural Studies (15-16 hours)

Complete the following:

COMM 220 Intercultural Communication 3 hours

SOCI 310 Cultural Anthropology 3 hours

SOCI 366 Social Change 3 hours

Choose two of the following:

SOCI 220 Men and Women in Society 3 hours SOCI

303 International Conflict and Peace 3 hours SOCI 370

International Economic Development 3 hours

GEOG 200 Cultural Geography and Global Relations 3 hours

LANG 350 Introduction to TESOL 3 hours

One semester of college-level world language study at the appropriate level. (3-4 hours)

Social Justice and Communities (15 hours)

Complete the following:

SOCI 220 Men and Women in Society 3 hours

SOCI 223 Sociology of Families 3 hours

SOCI 366 Social Change 3 hours

Choose two of the following:

ECON 211 Principles of Macroeconomics 3 hours

ECON 212 Principles of Microeconomics 3 hours

PSCI 310 Conflict Resolution 3 hours

PSYC 350 Social Psychology 3 hours

SOCI 310 Cultural Anthropology 3 hours

SOCI 339 Restorative Justice 3 hours

SOCI 430 Sociology of Religion 3 hours

Bachelors (BA) in Spanish

Overview

The Spanish major offers a 41-semester-hour course of study that is designed to move students toward advanced proficiency in the four skills (reading, writing, listening and speaking) defined by the American Council on the Teaching of Foreign Languages (ACTFL). The program emphasizes the unique relationship between culture and language. Central to all course work is an examination of issues of faith and culture. In keeping with the mission of George Fox University, service components are required in some courses.

Advanced course work includes historically important works of literature and a survey of Iberian and Latin American history and culture. One semester studying abroad in a Spanish-speaking country is required to complete the Spanish major. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in Spanish will:

- Demonstrate “Advanced” Speaking & Listening proficiency as defined by the American Council on the Teaching of Foreign Language (ACTFL)
- Demonstrate “Advanced” Writing proficiency as defined by ACTFL
- Demonstrate “Advanced” Reading proficiency as defined by ACTFL
- Articulate their personal faith in relation to faith practices of Spanish-speaking cultures
- Identify, describe and propose a small-scale solution for a pressing issue facing Spanish speakers
- Demonstrate knowledge of Spanish-speaking cultures, including marginalized populations and the role of religion

Prerequisite for Major Entry

Students must demonstrate proficiency in SPAN 202 Intermediate Spanish II (or placement exam) prior to entry into the Spanish major.

Major Requirements

Spanish Sequence Requirement (8 hours)

Choose one of the following sequences:

Sequence one:

SPAN 301 Intermediate/Advanced Spanish 4 hours
SPAN 302 Advanced Spanish 4 hours

OR

Sequence two:

SPAN 302 Advanced Spanish 4 hours

SPAN 303 Spanish for Heritage Speakers 4 hours

Additional Spanish Coursework Requirement (17 hours)

Complete the following:

SPAN 475 Spanish Field Experience should be taken for a minimum of 2 credits.

SPAN 340 Spanish Culture and Civilization 3 hours

SPAN 350 Latin American Culture and Civilization 3 hours

SPAN 410 Introduction to Spanish Literature 3 hours

SPAN 420 Introduction to Latin American Literature 3 hours

SPAN 475 Field Experience 1-10 hours

SPAN 480 Senior Capstone 3 hours

Study Abroad Requirement (16 hours)

After completing SPAN 301 and 302 or SPAN 302 and 303 or at least one upper-division SPAN class (3-4 credits) at George Fox University, students must choose 16 semester hours in an approved study abroad program in a Spanish-speaking country (credits abroad must be at 300-level or above and taught entirely in Spanish).

Bachelors (BSW) in Social Work

Overview

The CSWE accredited bachelor of social work degree offers a 126-semester-hour course of study, 63 hours of which are prescribed social work course work that is designed to prepare students for professional social work practice with diverse populations in a variety of settings. This includes work with individuals and couples (micro level); families and small groups (mezzo level); and agencies, institutions, community and church organizations (macro level). There is an emphasis on generalist practice that values the uniqueness, dignity and needs of all people. Generalist practice is oriented toward analyzing and addressing problems with micro, mezzo and macro skills and perspectives.

The program courses are designed to include academic social work and field experience/practicum requirements within a liberal arts context. This enables the student to link social research with social work practice. The program prepares students to work in a variety of social work and social welfare settings, as well as to seek admission into graduate programs like the Master of Social Work (MSW) program at George Fox University. Students are required to obtain a minimum grade of C in all courses taken for the major.

Program Objectives

Graduates with a BSW in social work will:

- Acquire the social work ethics, values, skills and knowledge needed to analyze and understand the development and interrelationship of diverse world views, issues in social justice, and basic human needs
- Demonstrate knowledge, skills and values necessary to understand and affect the interrelationship between an individual and his/her environment at the macro, mezzo and micro levels
- Work effectively within diverse social contexts, structures and change processes in their practice
- Understand how their personal faith integrates with social work and apply that to their practice
- Be prepared for graduate social work education and will be committed to continual development in their professional field

Admission Requirements

Students interested in pursuing a degree in social work should consult with a social work advisor as soon as possible. All students interested in social work as a degree must make formal application to the program.

Major Requirements

Core (57 hours)

Complete the following:

PSYC 150 General Psychology 3 hours SOCI
150 Principles of Sociology 3 hours SWRK 180
Introduction to Social Work 3 hours
SWRK 220 Writing for Social Work Practice 3 hours
SWRK 290 Diversity Issues in Social Work 3 hours
SWRK 331 Human Behavior in the Social Environment 3 hours
SWRK 333 Human Rights and Social Justice 3 hours
SWRK 340 Statistical Procedures 3 hours
SWRK 370 Developing Social Work Professional 3 hours
SWRK 391 Social Work Practice I 3 hours
SWRK 392 Social Work Practice II 3 hours
SWRK 393 Social Work Practice III 3 hours
SWRK 420 Mental Health and Substance Abuse 3 hours
SWRK 440 Social Work Research Methods 3 hours
SWRK 460 Social Policy 3 hours
SWRK 475 Field Experience/Practicum I 3 hours
SWRK 476 Field Experience/Practicum II 3 hours
SWRK 477 Field Experience/Practicum III 3 hours
SWRK 490 Senior Seminar 3 hours

Required Electives (6 hours)

Choose two of the following:

6 hours required

SWRK 321 Family Violence 3 hours
SWRK 322 Death, Loss, and Grief 3 hours
SWRK 400 Child Welfare 3 hours
SWRK 410 Social Work with Older Adults 3 hours
SWRK 485 Selected Topics 1-3 hours

Bachelors (BA) in Theatre

Overview

The theatre major offers a 48-semester-hour course of study that is designed to prepare students for entry into the competitive field of theatre as actors, directors, designers, technicians and managers. The major offers a concentration in acting/directing and a concentration in design/technology. Each concentration features a balance between theory and performance courses and requires students to apply their knowledge through laboratory classes in conjunction with the university theatre's main-stage season. Students are required to obtain a minimum grade of C- in all courses taken for the major.

Program Objectives

Graduates with a BA in Theatre will:

- Analyze a broad range of dramatic genres and performance texts from various historical periods and cultural backgrounds
- Research, conceptualize and produce a critical approach to theatrical design
- Function safely, effectively and collaboratively to solve specific production challenges as technicians, designers, actors or directors
- Apply skills in acting to support a stage production
- Evaluate how their faith concerns interact with and inform their work as theatre artists
- Demonstrate a discerning critique of self, peers, process and product as they solve specific artistic challenges

Major Requirements

Theatre Core Requirements (33 hours)

Theory Requirement (21 hours)

Complete the following:

LITR 379 Shakespeare 3 hours
THEA 100 Acting I: Fundamentals 3 hours
THEA 130 Stagecraft 3 hours
THEA 240 Understanding Drama 3 hours
THEA 340 Theatre as Ministry 3 hours
THEA 420 Theatre Management 3 hours
THEA 440 Theatre History 3 hours

Elective Requirement (6 hours)

Choose two of the following:

CINE 320 Dramatic Scriptwriting 3 hours

CINE 430 Producing and Directing Video 3 hours
THEA 160 Improvisational Theatre Workshop 2 hours
THEA 285 Selected Topics in Theatre 3 hours
THEA 350 Music Theatre Performance 3 hours
THEA 380 Costume Design 3 hours
THEA 390 Playwriting 3 hours

Practicum Requirement (6 hours)

Complete the following:

THEA 105 Technical Theatre Practicum 1 hour
THEA 305 Technical Theatre Practicum 1 hour

Complete 4 hours from the following:

THEA 105 Technical Theatre Practicum 1 hour
THEA 115 Acting Practicum 1-3 hours
THEA 135 Design Practicum 1-3 hours
THEA 145 Management Practicum 1-3 hours
THEA 155 Directing Practicum 1-3 hours
THEA 165 George Fox University Players: Drama Touring Troupe 1 hour
THEA 275 Field Experience 1-10 hours
THEA 305 Technical Theatre Practicum 1 hour
THEA 315 Acting Practicum 1-3 hours
THEA 335 Design Practicum 1-3 hours
THEA 345 Management Practicum 1-3 hours
THEA 355 Directing Practicum 1-3 hours
THEA 365 George Fox University Players: Drama Touring Troupe 1 hour
THEA 475 Field Experience 1-10 hours
THEA 495 Individualized Study 1-3 hours

Concentrations (15 hours) - choose one

Acting/Directing (15 hours)

Complete the following:

THEA 200 Acting II: Stage Voice and Movement 3 hours
THEA 300 Acting III: Contemporary Scene Study 3 hours
THEA 370 Directing for Theatre 3 hours
THEA 400 Acting IV: Acting Shakespeare 3 hours

Choose one of the following:

THEA 330 Stage Lighting and Sound 3 hours
THEA 430 Scenic Design 3 hours

Design/Technology (15 hours)

Complete the following:

THEA 135 Design Practicum 1-3 hours
THEA 335 Design Practicum 1-3 hours
THEA 330 Stage Lighting and Sound 3 hours
THEA 380 Costume Design 3 hours
THEA 430 Scenic Design 3 hours

Design/Technology Portfolio Review Benchmark:

Students are required to present their design/technology portfolio to theatre faculty their senior year.

Choose one of the following:

THEA 300 Acting III: Contemporary Scene Study 3 hours
THEA 370 Directing for Theatre 3 hours
THEA 400 Acting IV: Acting Shakespeare 3 hours

Minors

Accounting Minor

Overview

The accounting minor is designed to provide students in other majors a deeper understanding of accounting and how it impacts organizations.

Minor Requirements

18 credit hours

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours
ACCT 272 Principles of Managerial Accounting 3 hours
ACCT 371 Financial Accounting and Reporting I 3 hours
ACCT 372 Financial Accounting and Reporting II 3 hours

Choose six semester hours from the following courses:

ACCT 350 Taxation 3 hours
ACCT 370 Accounting Information Systems 3 hours
ACCT 373 Financial Accounting and Reporting III 3 hours
ACCT 450 Advanced Analytics in Accounting 3 hours
ACCT 471 Advanced Accounting 3 hours
ACCT 472 Auditing 3 hours
ACCT 480 Business Taxation 3 hours
ACCT 485 Selected Topics 3 hours

Art History Minor

Overview

The art history minor is a 21-hour course of study that provides students a broad overview of the history of art. This credential will assist students in preparation for graduate studies, museum- and gallery-related careers and education. Students are required to earn a minimum grade of C- in all courses taken for the minor.

Minor Requirements

21 credit hours

Complete the following:

ARTS 216 Art History Survey to 1450 3 hours
ARTS 217 Art History Survey from 1450 3 hours

Complete the following:

ARTS 355 Topics in Art History 3 hours
ARTS 355 Topics in Art History 3 hours
ARTD 363 History of Visual Communication 3 hours
ARTS 382 Twentieth-Century Art 3 hours
ARTS 384 Contemporary Art Forms 3 hours

Note: Complete two different Art History topics for ARTS 355

Art Minor

Minor Requirements

21 credit hours

Complete the following:

ARTS 101 Basic Design 2-D 3 hours

ARTS 111 Drawing I 3 hours

ARTS 216 Art History Survey to 1450 3 hours

ARTS 217 Art History Survey from 1450 3 hours

ARTS Studio Elective Coursework 9 hours

Note: Minors focusing on 3-D studio courses may petition to substitute ARTS 102 Basic Design 3-D for ARTS 101 Basic Design 2-D.

Students must also choose one of the following options:

- Submit artworks for juried George Fox Art Student Exhibition
- Present a portfolio for review and petition for an alternative exhibition venue

Biblical Studies Minor

Minor Requirements

18 credit hours

Complete the following:

A minimum of 12 semester hours must be from upper-division courses.

BIBL Biblical studies coursework (200 level or above) 12 hours

CHMN Christian ministries coursework 3 hours

RELI Religious studies coursework 3 hours

Biology Minor

Minor Requirements

20 credit hours

Choose one of the following sequences:

Sequence 1:

BIOL 211 General Biology I 4 hours

BIOL 212 General Biology II 4 hours

Sequence 2:

BIOL 221 Human Anatomy and Physiology I 4 hours

BIOL 222 Human Anatomy and Physiology II 4 hours

Complete the following:

BIOL electives 300-level or above 12 hours

Business Administration Minor

Overview

The business administration minor is designed to provide students, in majors outside the College of Business, the opportunity to gain an understanding of business principles that they can apply to their primary discipline.

Minor Requirements

21 credit hours

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours

BUSN 110 Introduction to Business 3 hours

BUSN 240 Business Statistics 3 hours

ECON 211 Principles of Macroeconomics 3 hours

FINC 260 Business Finance 3 hours

MGMT 260 Principles of Management 3 hours

MKTG 260 Principles of Marketing 3 hours

Camping: Administrative Minor

Minor Requirements

20 credit hours

Complete the following:

ACCT 271 Principles of Financial Accounting 3 hours

BUSN 110 Introduction to Business 3 hours

CHMN 230 The Christian and the Outdoors 3 hours

CHMN 370 Camp Programming and Counseling 2 hours

CHMN 440 Camp Administration 2 hours

CHMN 475 Field Experience 1-5 hours

MGMT 260 Principles of Management 3 hours

Camping: Programming Minor

Minor Requirements

18 credit hours

Complete the following:

CHMN 230 The Christian and the Outdoors 3 hours
CHMN 370 Camp Programming and Counseling 2 hours
CHMN 440 Camp Administration 2 hours
CHMN 475 Field Experience 1-5 hours

Students must complete HHPA camp-related activity courses (e.g. HHPA 103, 108, etc)
4 hours

Choose two of the following:

CHMN 320 Relational Bible Teaching 3 hours
CHMN 330 Youth Ministry: Theology and Philosophy of Ministry 2 hours
HHPE 380 Experiential Recreational Leadership 3 hours

Chemistry Minor

Minor Requirements

22-24 credit hours

Complete the following:

CHEM 211 General Chemistry I 4 hours
CHEM 212 General Chemistry II 4 hours
CHEM 331 Organic Chemistry I 4 hours
CHEM 332 Organic Chemistry II 4 hours

Choose two of the following:

CHEM 310 Analytical Chemistry 4 hours
CHEM 320 Advanced Inorganic Chemistry 3 hours
CHEM 341 Biochemistry I 4 hours
CHEM 342 Biochemistry II 4 hours
CHEM 380 Advanced Organic Chemistry 3 hours
CHEM 440 Thermodynamics 4 hours
CHEM 450 Quantum Chemistry 3 hours

Christian Ministries: Cross-Cultural Ministry Minor

Minor Requirements

18 credit hours

Complete the following:

CHMN 130 Christian Discipling 3 hours

RELI 330 Introduction to the World Christian Movement 3 hours

RELI 360 Cross-Cultural Christian Outreach 3 hours

RELI 440 World Religions 3 hours

RELI 460 Issues in Contemporary Missions 3 hours

Choose one of the following:

CHMN 341 World Christianity: Theology and Practice 3 hours

RELI 380 Christian Beliefs 3 hours

Christian Ministries: Theology and Vocation Minor

Minor Requirements

18 credit hours

Complete the following:

CHMN 130 Christian Discipling 3 hours

CHMN 391 Theological Praxis I: Foundation of Self 3 hours

CHMN 392 Theological Praxis II: Christian Community 3 hours

CHMN 491 Theological Praxis III: Study of Theology 3 hours

CHMN 492 Theological Praxis IV: Critical Issues 3 hours

Choose one of the following:

CHMN 341 World Christianity: Theology and Practice 3 hours

RELI 380 Christian Beliefs 3 hours

Christian Ministries: Youth Ministry Minor

Minor Requirements

18 credit hours

Complete the following:

CHMN 130 Christian Discipling 3 hours

CHMN 240 Youth Ministry: Youth Culture 2 hours

CHMN 241 Youth Ministry: Methods and Practice 2 hours

CHMN 330 Youth Ministry: Theology and Philosophy of Ministry 2 hours

CHMN 381 Counseling 3 hours

CHMN 475 Field Experience 1-5 hours

Choose one of the following:

CHMN 341 World Christianity: Theology and Practice 3 hours

RELI 380 Christian Beliefs 3 hours

Cinematic Arts Minor

Minor Requirements

18 credit hours

Complete the following:

CINE 230 Introduction to Video Production 3 hours

Choose one of the following:

CINE 160 History of U.S. Cinema 3 hours

COMM 230 Mass Media and Popular Culture 3 hours

Choose 12 semester hours from the following

CINE Elective Coursework 12 hours

COMM 230 Mass Media and Popular Culture 3 hours

COMM 240 Introduction to Public Relations 3 hours

COMM 400 Critical Approaches to Communication 3 hours

WRIT 310 Professional Writing 3 hours

Limited to 3 hours each: CINE 475 Field Experience and/or CINE 495 Special Study

Coaching Minor

Minor Requirements

21 credit hours

Complete the following:

HHPE 300 Coaching Theory and Practice 2 hours
HHPE 360 Organization and Administration of Sport and Physical Education 2 hours
HHPE 390 Care and Prevention of Athletic Injuries 3 hours
HHPE 430 Exercise Physiology 3 hours
HHPE 470 Motor Development and Motor-Skill Learning 3 hours
HLTH 230 First Aid and Safety 1 hour
PSYC 311 Child Development 3 hours

Choose two of the following:

HHPE 310 Coaching Basketball 2 hours
HHPE 320 Coaching Baseball/Softball 2 hours
HHPE 330 Coaching Soccer 2 hours
HHPE 340 Coaching Track 2 hours
HHPE 350 Coaching Volleyball 2 hours

Communication Minor

Minor Requirements

21 credit hours

Complete the following:

COMM 200 Persuasive Communication 3 hours
COMM 210 Interpersonal Communication 3 hours
COMM 230 Mass Media and Popular Culture 3 hours

Choose one of the following:

COMM 300 Communication Theory and Research 3 hours
COMM 400 Critical Approaches to Communication 3 hours

Choose one of the following:

COMM 410 Gender Comm Across Cultures 3 hours
COMM 420 Intercultural Communication 3 hours

Choose two of the following:

COMM 240 Introduction to Public Relations 3 hours
COMM 260 Introduction to Communication Research Methods 3 hours
COMM 270 Introduction to Organizational Communication 3 hours
COMM 290 Small Group Communication 3 hours
COMM 310 Conflict Resolution 3 hours
COMM 324 Argumentation and Critical Thinking 3 hours
COMM 380 Advanced Organizational Communication 3 hours

Computer Science Minor

Minor Requirements

18 credit hours

CSIS 201 Intro to Computer Science 3 hours

CSIS 202 Intro to Computer Science II 3 hours

CSIS 310 Data Structures 3 hours

Choose 9 additional semester hours of upper-division (300 level or above) computer science and information systems (CSIS) coursework.

Criminal Justice Minor

Minor Requirements

18 credit hours

Complete the following:

SWRK 210 Intro to Criminal Justice 3 hours
SOCL 331 Crime and Deviance 3 hours
SOCL 333 Juvenile Delinquency 3 hours
SOCL 339 Restorative Justice 3 hours
SWRK 420 Mental Health and Substance Abuse 3 hours

Choose one of the following:

PSCI 240 State and Local Government 3 hours
PSCI 260 Introduction to Law 3 hours
PSCI 353 Constitutional Law: Civil Rights and Liberties 3 hours
PSYC 314 Adolescent Development 3 hours
PSYC 330 Personality Theory 3 hours

Economics Minor

Overview

The economics minor is designed to provide students in other majors with a broader view of how the economy impacts organizations both domestically and internationally.

Minor Requirements

18 credit hours

Complete the following:

ECON 211 Principles of Macroeconomics 3 hours

ECON 212 Principles of Microeconomics 3 hours

Choose four of the following:

BUSN 240 Business Statistics 3 hours

ECON 301 Intermediate Microeconomics 3 hours

ECON 302 Intermediate Macroeconomics 3 hours

ECON 340 Public Economics 3 hours

ECON 370 International Economic Development 3 hours

ECON 410 Introduction to Applied Econometric 3 hours

ECON 440 Urban and Regional Economics 3 hours

ECON 463 International Trade and Finance 3 hours

ECON 485 Selected Topics 1-3 hours

Entrepreneurship Minor

Overview

The entrepreneurship minor is designed to provide students in other majors a deeper understanding of business creation and operation.

Minor Requirements

18 credit hours

Complete the following:

BUSN 110 Introduction to Business 3 hours
ENPR 300 Entrepreneurship I 3 hours
ENPR 400 Entrepreneurship II 3 hours
MGMT 260 Principles of Management 3 hours
MKTG 260 Principles of Marketing 3 hours

Choose one of the following:

ENPR 410 Entrepreneurship III 3 hours
ENPR 475 Field Experience 1-6 hours
MKTG 300 Consumer Behavior 3 hours

Finance Minor

Overview

The finance minor is designed to provide students in other majors a deeper understanding of finance and how it impacts organizations.

Minor Requirements

18 credit hours

Complete the following:

FINC 260 Business Finance 3 hours

Choose three of the following:

ECON 463 International Trade and Finance 3 hours
FINC 300 Intermediate Financial Management 3 hours
FINC 340 Financial Markets and Institutions 3 hours
FINC 450 Investment Planning 3 hours
FINC 460 Financial Analysis and Strategy 3 hours
FINC 490 Seminar in Finance 3 hours

Complete the following:

Choose two courses from ACCT, BUSN, ECON, ENPR, FINC, GBSN, MGMT or MKTG disciplines (6 hours)

French Minor

Overview

The French minor is designed to enable students to acquire an intermediate high to advanced proficiency in French in all four skills (reading, writing, listening and speaking) as defined by the American Council on the Teaching of Foreign Languages (ACTFL). Students are required to spend one semester abroad in a French-speaking country to complete the French minor, gaining cross-cultural experience and literacy in the process.

Prerequisite for Minor Entry

Students must demonstrate proficiency in French 202 Intermediate French II (4) (or placement exam) prior to entry into the French minor.

Minor Requirements

20-24 credit hours

Complete the following:

FREN 301 Intermediate/Advanced French 4 hours

FREN 302 Intermediate/Advanced French 4 hours

FREN 490 Study Abroad 12-16 hours

FREN 490 Study Abroad must be taken after completion of FREN 301/302. 12 credits hours abroad must be 300-level or above, taught entirely in French, in an approved program, in a French-speaking country.

Global Business Minor

Overview

The global business minor is designed to provide students in other majors a deeper understanding of globalization and how it impacts organizations.

Minor Requirements

18 credit hours

Complete the following:

GBSN 300 Global Business 3 hours

Choose three of the following:

ECON 463 International Trade and Finance 3 hours

MGMT 440 International Management 3 hours

MKTG 340 Global Marketing 3 hours

PSCI 230 Introduction to International Affairs 3 hours

Complete the following:

Choose two courses from the ACCT, BUSN, ECON, ENPR, FINC, GBSN, MGMT, or MKTG disciplines. (6 hours)

Graphic Design Minor

Minor Requirements

23 credit hours

Complete the following:

ARTD 110 Creative Suite 3 hours
ARTD 200 Design Process and Thinking 3 hours
ARTD 220 Typography 3 hours
ARTS 101 Basic Design 2-D 3 hours
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 105 Art & Design Professional Networking Seminar 1 hour
ARTS 111 Drawing I 3 hours

Choose two of the following:

ARTD 250 Print and Packaging 3 hours
ARTD 270 Web Design I 3 hours
ARTD 373 Creative Action Studio 3 hours
ARTD 383 Interaction Design 3 hours
ARTD 453 Systems and Identity 3 hours

Health Minor

Minor Requirements

18 credit hours

Complete the following:

- HLTH 210 Drug Education 2 hours
- HLTH 223 Sociology of Families 3 hours
- HLTH 230 First Aid and Safety 1 hour
- HLTH 240 Stress Management 3 hours
- HLTH 300 Nutrition 3 hours
- HLTH 320 Contemporary Health Issues 3 hours
- HLTH 485 Selected Topics 1-3 hours

Health Teaching Minor

Minor Requirements

21-23 credit hours

Complete the following:

HLTH 210 Drug Education 2 hours
HLTH 223 Sociology of Families 3 hours
HLTH 230 First Aid and Safety 1 hour
HLTH 240 Stress Management 3 hours
HLTH 300 Nutrition 3 hours
HLTH 320 Contemporary Health Issues 3 hours

Choose two of the following:

BIOL 221 Human Anatomy and Physiology I 4 hours
BIOL 222 Human Anatomy and Physiology II 4 hours
HHPE 430 Exercise Physiology 3 hours
PSYC 311 Child Development 3 hours

History Minor

Minor Requirements

18 credit hours

Choose one of the following:

HIST 110 Western Civilization to 1648 3 hours

HIST 120 Western Civilization from 1648 3 hours

Choose one of the following:

HIST 151 United States to 1865 3 hours

HIST 152 United States from 1865 3 hours

Complete the following:

HIST Elective Coursework 12 hours

Information Systems Minor

Minor Requirements

18 credit hours

BUSN 240 Business Statistics 3 hours

CSIS 201 Intro to Computer Science 3 hours

CSIS 202 Intro to Computer Science II 3 hours

MGMT 260 Principles of Management 3 hours

Choose 6 additional semester hours of upper-division (300 level or above) computer science and information systems (CSIS) coursework.

International Studies Minor

Minor Requirements

21 credit hours

Complete the following:

INTL 200 Cultural Geography and Global Relations 3 hours
INTL 230 Introduction to International Affairs 3 hours
INTL 330 Politics of the Developing World 3 hours
INTL 370 International Economic Development 3 hours
INTL 440 World Religions 3 hours

Choose two of the following:

ECON 463 International Trade and Finance 3 hours
GBSN 300 Global Business 3 hours
HIST 250 Latin America 3 hours
HIST 340 History of the Middle East 3 hours
HIST 343 History of Southern Africa 3 hours
HIST 360 Modern Russia 3 hours
HIST 370 Modern China and Japan 3 hours
HIST 422 Europe: 1890-Present 3 hours
INTL 475 Internship 3 hours
LITR 238 Contemporary World Literature 3 hours
LITR 480 International Women's Voices 3 hours
PSCI 253 Introduction to Comparative Politics 3 hours
PSCI 303 International Conflict and Peace 3 hours
PSCI 383 International Organizations and International Law 3 hours
RELI 330 Introduction to the World Christian Movement 3 hours
RELI 360 Cross-Cultural Christian Outreach 3 hours
SPAN 350 Latin American Culture and Civilization 3 hours

Journalism Minor

The Journalism minor offers a 21-unit course of study that focuses on key journalistic skills and knowledge sets, and is designed to be combined with a complementary major. Students are required to obtain a minimum grade of C- in all courses taken for the minor.

Minor Requirements

21 credit hours

Complete the following:

CINE 230 Introduction to Video Production 3 hours
CINE 350 Editing Video 3 hours
JOUR 230 Introduction to Journalism 3 hours
JOUR 330 Magazine and Feature Writing 3 hours
JOUR 470 Journalism II 3 hours

Complete 6 hours from the following:

COMM 230 Mass Media and Popular Culture 3 hours
CINE 340 Media Law and Ethics 3 hours
CINE 355 Event Video Production 3 hours
CINE 371 Documentary Production I 3 hours
CINE 372 Documentary Production II 3 hours
CINE 475 Field Experience 1-10 hours
JOUR 310 Professional Writing 3 hours
WRIT 210 Practical Grammar and Editing 3 hours

Literature Minor

Minor Requirements

18 credit hours

Complete the following:

LITR 180 Studies in Literature 3 hours

Electives

Choose 6 semester hours of writing (WRIT)* or literature (LITR) coursework

Choose 9 additional semester hours of literature (LITR) coursework above the 300-level

*WRIT electives may not include WRIT 100, 103, 110, or 111

Management Minor

Overview

The management minor is designed to provide students in other majors a deeper understanding of management and leadership in organizations.

Minor Requirements

18 credit hours

Complete the following:

MGMT 260 Principles of Management 3 hours

Choose three of the following:

ENPR 300 Entrepreneurship I 3 hours

MGMT 300 Leading and Managing People 3 hours

MGMT 440 International Management 3 hours

MGMT 450 Operations Management 3 hours

MGMT 480 Organizational Behavior 3 hours

Complete the following:

Choose two courses from the ACCT, BUSN, ECON, ENPR, FINC, GBSN, MGMT, or MKTG disciplines. (6 hours)

Marketing Minor

Overview

The marketing minor is designed to provide students in other majors a deeper understanding of marketing and how it impacts organizations.

Minor Requirements

18 credit hours

Complete the following:

MKTG 260 Principles of Marketing 3 hours

Choose three of the following:

MKTG 300 Consumer Behavior 3 hours

MKTG 360 Digital Marketing 3 hours

MKTG 420 Marketing Communications 3 hours

MKTG 450 Marketing Research and Decision Making 3 hours

MKTG 480 Marketing Management and Strategy 3 hours

Complete the following:

Choose two courses from the ACCT, BUSN, ECON, ENPR, FINC, GBSN, MGMT, or MKTG disciplines. (6 hours)

Mathematics Minor

Minor Requirements

20 credit hours

MATH 201 Calculus I 4 hours

MATH 202 Calculus II 4 hours

MATH 290 Introduction to Proofs 3 hours

MATH electives 300-level or above 9 hours

Music Minor

Minor Requirements

19.5 - 21.5 credit hours

MUSI 121 Theory I 3 hours

MUSI 122 Theory II 3 hours

MUSI 131 Sight Singing and Ear Training I 1 hour

MUSI 132 Sight Singing and Ear Training II 1 hour

MUSI 200 Basic Conducting 1.5 hours

MUSI 311 Music History I 3 hours

MUSI 312 Music History II 3 hours

MUSA 105/305 Applied Music 2 hours

Choose 4 semesters from:

MUSA 115/315 Ensemble 2-4 hours

Music Theatre Minor

Minor Requirements

21 credit hours Music

Theory (4 hours)

Complete the following:

MUSI 121 Theory I 3 hours

MUSI 131 Sight Singing and Ear Training I 1 hour

Applied Music (3 hours)

Choose one of the following:

MUSA 125C Concert Choir 0-2 hours

MUSA 325C Concert Choir 0-2 hours

MUSA 135B Chorale 0-1 hours

MUSA 335B Chorale 0-1 hours

Choose one of the following:

MUSA 105VC Applied Voice .5-1 hours

MUSI 125 Voice Class 1 hour

Dance (1 hour)

Complete the following:

HHPA 109 Ballroom Dancing 1 hour

Theatre (10 hours)

THEA 100 Acting I: Fundamentals 3 hours

THEA 200 Acting II: Stage Voice and Movement 3 hours

THEA 350 Music Theatre Performance 3 hours

THEA 105 Technical Theatre Practicum 1 hour

THEA 305 Technical Theatre Practicum 1 hour

Electives (3 hours)

Theatre (THEA) or music theory and literature (MUSI) coursework (3 hours)

Peace Studies Minor

Overview

The peace studies minor explores the moral, strategic and practical aspects of peacemaking at every level of human activity from the interpersonal to the international. Students study the origins of conflicts, dynamics that sustain them, opportunities they offer, destruction they cause, and various approaches available for peacemaking. Courses draw on a wide variety of disciplines – political science, history, economics, communications and religion. For further information on peace and justice curricula and programs, visit the Center for Peace and Justice website or contact the director.

Minor Requirements

21 credit hours

Choose one of the following:

Students may choose to complete both of these courses, reducing electives to 5 courses.

INTL 303 International Conflict and Peace 3 hours
PSCI 460 Peace Theory 3 hours

Choose six courses from the following:

(or 5 if both courses are taken above)

BIBL 390 Biblical Basis for Peacemaking 3 hours
COMM 310 Conflict Resolution 3 hours
ECON 370 International Economic Development 3 hours
HIST 363 War and Conscience in the United States 3 hours
INTL 230 Introduction to International Affairs 3 hours
PSCI 383 International Organizations and International Law 3 hours
PSCI 410 Community Mediation 3 hours
PSCI 475 Field Experience 1-3 hours

Philosophy Minor

Minor Requirements

18 credit hours

Complete the following:

PHIL 150 Introduction to Philosophy 3 hours
PHIL 180 Ethics 3 hours
PHIL 277 Spirituality and the Intellectual Life 3 hours

Choose one of the following:

PHIL 311 History 1: Ancient and Medieval Philosophy 3 hours
PHIL 312 History 2: Modern and Postmodern Philosophy 3 hours

Choose two of the following:

6 semester hours required

PHIL 214 Philosophy Colloquium 1 hour
PHIL 300 American Political Theory 3 hours
PHIL 310 Christian Apologetics 3 hours
PHIL 311 History 1: Ancient and Medieval Philosophy 3 hours
PHIL 312 History 2: Modern and Postmodern Philosophy 3 hours
PHIL 313 Feminist Philosophy 3 hours
PHIL 314 Philosophy Colloquium 1 hour
PHIL 320 Agrarian Philosophy: Life and Land 3 hours
PHIL 330 Religion and Reason 3 hours
PHIL 332 Virtue Philosophy 3 hours
PHIL 335 Knowledge and What There Is 3 hours
PHIL 373 Social Theory 3 hours
PHIL 380 Gender Theory 3 hours
PHIL 399 Cross-Cultural Experience 3 hours
PHIL 414 Philosophy Colloquium 1 hour
PHIL 415 Contemporary Philosophers 3 hours
PHIL 435 Contemporary Problems 3 hours
PHIL 445 History Seminar 3 hours

Politics Minor

Minor Requirements

18 credit hours

Complete the following:

PSCI 150 Introduction to Political Science 3 hours

PSCI 290 Political Science Research and Writing 3 hours

PSCI Political Science Coursework 12 hours

No more than 3 hours of internship credit may apply.

Psychology Minor

Minor Requirements

18 credit hours

Complete the following:

PSYC 150 General Psychology 3 hours

PSYC Upper-division Psychology Coursework 15 hours

Students interested in declaring a psychology minor should meet with a psychology faculty member to discuss upper-division course options.

Quaker Studies Minor

Minor Requirements

19 credit hours

Complete the following:

RELI 260 History and Doctrine of Friends 3 hours
RELI 350 Spiritual Formation 3 hours
RELI 385 Quaker Seminar 1 hour
RELI 402 Christianity in History II 3 hours

Choose one of the following:

BIBL 390 Biblical Basis for Peacemaking 3 hours
HIST 363 War and Conscience in the United States 3 hours
PSCI 310 Conflict Resolution 3 hours

Choose two of the following:

(6 credit hours)

PHIL 330 Religion and Reason 3 hours
RELI 230 Sociology of Religion 3 hours
RELI 401 Christianity in History I 3 hours
RELI 385 Quaker Seminar 1 hour

Student may also choose RELI 385, but must complete 3 RELI 385 Quaker Seminars (1 hour each)

RELI 430 may be taken in place of RELI 230.

Recreation Minor

Minor Requirements

17 credit hours

Complete the following:

HHPA 130 Aquatics 1 hour
HHPE 200 History and Principles of Physical Education 2 hours
HHPE 370 Camp Programming and Counseling 2 hours
HHPE 380 Experiential Recreational Leadership 3 hours
HHPE 440 Camp Administration 2 hours
HLTH 230 First Aid and Safety 1 hour
HLTH 240 Stress Management 3 hours

Students must choose one of the following options for 3 semester hours:

Option 1

Choose three of the following:

The 300-level of these courses may be substituted for the 100-level.

HHPA 103 Backpacking 1 hour
HHPA 109 Ballroom Dancing 1 hour
HHPA 122 Survival Techniques 1 hour
HHPA 126 Skiing/Snowboarding 1 hour

Option 2

Complete the following:

3 hours required
HHPE 485 Selected Topics 2-3 hours

Religion Minor

Minor Requirements

22-23 credit hours

A minimum of 14 semester hours must be upper-division coursework

Complete the following:

RELI 330 Introduction to the World Christian Movement 3 hours

RELI 380 Christian Beliefs 3 hours

RELI 385 Quaker Seminar 1 hour

RELI 440 World Religions 3 hours

Choose two of the following:

RELI 340 Christian Classics 3 hours

RELI 350 Spiritual Formation 3 hours

RELI 490 Contemporary Religious Life 3 hours

Choose one of the following:

RELI 260 History and Doctrine of Friends 3 hours

RELI 401 Christianity in History I 3 hours

RELI 402 Christianity in History II 3 hours

Complete the following:

Biblical studies (BIBL) coursework (200-level or above) 3-4 hours

Romance Languages Minor

Overview

The romance languages minor is designed for students who are already proficient in either French or Spanish and who wish to acquire an intermediate high to advanced proficiency in both French and Spanish in all four skills (reading, writing, listening and speaking) as defined by the American Council on the Teaching of Foreign Languages (ACTFL). Students may complete the minor through coursework in Spanish at George Fox or may choose to spend one semester in an approved study abroad program in either a French- or Spanish-speaking country, gaining cross-cultural experience and literacy in the process.

Prerequisite for Minor Entry

Students must demonstrate proficiency in the following prior to entry into the romance languages minor:

FREN 201 Intermediate French I (4) *and* FREN 202 (4) Intermediate French II (or placement exam)

SPAN 201 Intermediate Spanish I (4) *and* SPAN 202 (4) Intermediate Spanish II (or placement exam)

Minor Requirements

22 credit hours

Complete the following:

FREN 301 Intermediate/Advanced French 4 hours

FREN 302 Intermediate/Advanced French 4 hours

SPAN 301 Intermediate/Advanced Spanish 4 hours

SPAN 302 Advanced Spanish 4 hours

Choose one of the following options:

Option 1

Choose two of the following:

SPAN 340 Spanish Culture and Civilization 3 hours

SPAN 350 Latin American Culture and Civilization 3 hours

SPAN 410 Introduction to Spanish Literature 3 hours

SPAN 420 Introduction to Latin American Literature 3 hours

Option 2

If student chooses to pursue study abroad in French, FREN 301 and 302 must be completed prior to study abroad. Six credits abroad must be 300-level or above and taught entirely in French. If student chooses to pursue study abroad in Spanish, SPAN

301 and 302 must be completed prior to study abroad. Six credits abroad must be 300-level or above and taught entirely in Spanish.

Social Welfare Minor

Minor Requirements

18 credit hours

Complete the following:

SWRK 180 Introduction to Social Work 3 hours
SWRK 290 Diversity Issues in Social Work 3 hours
SWRK 331 Human Behavior in the Social Environment 3 hours
SWRK 333 Human Rights and Social Justice 3 hours
SWRK 460 Social Policy 3 hours

Choose one of the following:

3 semester hours required.

SWRK 321 Family Violence 3 hours
SWRK 322 Death, Loss, and Grief 3 hours
SWRK 400 Child Welfare 3 hours
SWRK 410 Social Work with Older Adults 3 hours
SWRK 485 Selected Topics 1-3 hours

Sociology Minor

Minor Requirements

21 credit hours

Complete the following:

SOCI 150 Principles of Sociology 3 hours
SOCI 363 Social Inequality 3 hours
SOCI 373 Social Theory 3 hours

Choose one of the following:

SOCI 220 Men and Women in Society 3 hours
SOCI 366 Social Change 3 hours
SOCI 380 Race and Ethnicity 3 hours

Choose 9 semester hours from the following:

SOCI 220 Men and Women in Society 3 hours
SOCI 223 Sociology of Families 3 hours
SOCI 310 Cultural Anthropology 3 hours
SOCI 331 Crime and Deviance 3 hours
SOCI 333 Juvenile Delinquency 3 hours
SOCI 340 Statistical Procedures 3 hours
SOCI 380 Race and Ethnicity 3 hours
SOCI 390 Research Methods 3 hours
SOCI 475 Internship 3-6 hours

Spanish Minor

Prerequisite for Minor Entry

Students must demonstrate proficiency in SPAN 201 and SPAN 202 Intermediate Spanish (4 hours each) (or placement exam) prior to entry into the Spanish minor.

Minor Requirements

20-22 credit hours

Based on placement exam score, complete either:

SPAN 301 Intermediate/Advanced Spanish 4 hours
SPAN 302 Advanced Spanish 4 hours

OR

SPAN 302 Advanced Spanish 4 hours
SPAN 303 Spanish for Heritage Speakers 4 hours

Choose one of the following options:

Option 1

SPAN 340 Spanish Culture and Civilization 3 hours
SPAN 350 Latin American Culture and Civilization 3 hours
SPAN 410 Introduction to Spanish Literature 3 hours
SPAN 420 Introduction to Latin American Literature 3 hours
SPAN 475 Field Experience 1-10 hours
2 hours of SPAN 475 required

Option 2

After completing SPAN 301 & 302 or SPAN 302 & 303 or at least one upper-division SPAN class (3-4 credits) at George Fox University, students must choose 12 semester hours in an approved study abroad program in a Spanish-speaking country (credits abroad must be at 300-level or above and taught entirely in Spanish).

TESOL Minor

The TESOL minor is designed to provide a basic foundation for students who are interested in teaching English to speakers of other languages, including teaching English as a foreign language overseas, and tutoring or teaching English as a second language in local church or community programs.

NOTE: Students interested in pursuing TESOL as a profession should continue their studies at the graduate level. A master's degree program is recommended for those interested in teaching at a college or community college.

Minor Requirements

21-23 credit hours

Complete the following:

LANG 340 General and Cultural Linguistics 3 hours

LANG 343 Second Language Acquisition 3 hours

LANG 350 Introduction to TESOL 3 hours

SOCI 310 Cultural Anthropology 3 hours

One year of a foreign language or, for non-native speakers of English, two of these courses: ESLA 281, ESLA 282, ESLA 283 (6-8 hours)

Choose one of the following:

COMM 220 Intercultural Communication 3 hours

COMM 420 Intercultural Communication 3 hours

RELI 360 Cross-Cultural Christian Outreach 3 hours

Theatre Minor

Minor Requirements

19 credit hours

Complete the following:

THEA 100 Acting I: Fundamentals 3 hours
THEA 130 Stagecraft 3 hours
THEA 340 Theatre as Ministry 3 hours
THEA 440 Theatre History 3 hours
THEA 105 Technical Theatre Practicum 1 hour

Choose 6 semester hours from the following:

A 300-level offered for any of the following courses may be substituted for the 100-level.

THEA 105 Technical Theatre Practicum 1 hour
THEA 115 Acting Practicum 1-3 hours
THEA 135 Design Practicum 1-3 hours
THEA 145 Management Practicum 1-3 hours
THEA 155 Directing Practicum 1-3 hours
THEA 160 Improvisational Theatre Workshop 2 hours
THEA 165 George Fox University Players: Drama Touring Troupe 1 hour
THEA 200 Acting II: Stage Voice and Movement 3 hours
THEA 240 Understanding Drama 3 hours
THEA 275 Field Experience 1-10 hours
THEA 285 Selected Topics in Theatre 3 hours
THEA 300 Acting III: Contemporary Scene Study 3 hours
THEA 330 Stage Lighting and Sound 3 hours
THEA 350 Music Theatre Performance 3 hours
THEA 370 Directing for Theatre 3 hours
THEA 380 Costume Design 3 hours
THEA 390 Playwriting 3 hours
THEA 400 Acting IV: Acting Shakespeare 3 hours
THEA 420 Theatre Management 3 hours
THEA 430 Scenic Design 3 hours
THEA 475 Field Experience 1-10 hours
THEA 485 Selected Topics 3 hours
THEA 495 Individualized Study 1-3 hours

Women's Studies Minor

Minor Requirements

18 credit hours

Complete the following:

LITR 280 Literary Foundations of Women's Studies 3 hours

LITR 480 International Women's Voices 3 hours

Choose one of the following:

BIBL 315 Contemporary Issues in Biblical Studies 3 hours

LITR 380 Gender Theory 3 hours

PHIL 313 Feminist Philosophy 3 hours

BIBL 315 Contemporary Issues in Biblical Studies accepted topic for this requirement:

- Women and the Bible

Choose three of the following:

9 semester hours required

ARTS 355 Topics in Art History 3 hours

COMM 410 Gender Comm Across Cultures 3 hours

RELI 215 Topics and Themes in Religion and Theology 3 hours

SOCI 220 Men and Women in Society 3 hours

SOCI 223 Sociology of Families 3 hours

RELI 215 Religion and Theology accepted topics for this requirement:

- Women's Voices in Contemporary Theology
- Women in Church History

Selected Topic courses offered with the appropriate objectives, such as RELI 215, will only fulfill the requirements if they are offered under the titles listed above, or are otherwise approved by the Women's Studies faculty advisor.

Worship Arts Minor

Minor Requirements

19 credit hours

Core requirements (13.5 hours)

Complete the following:

MUSA 105/305VC Applied Voice 2 hours

MUSI 121 Theory I 3 hours

MUSI 131 Sight Singing and Ear Training I 1 hour

MUSI 200 Basic Conducting 1.5 hours

MUSI 272 Music Techniques Vocal 1 hour

MUSI 340 Creating, Planning, and Leading Worship 3 hours

MUSI 400 Music and Christian Faith 2 hours

Electives (3.5 hours)

Choose 1.5 semester hours from the following:

MUSA 125C Concert Choir 0-2 hours

MUSA 135A Chamber Singers 0-1 hours

MUSA 135B Chorale 0-1 hours

MUSA 135J Vocal Jazz Ensemble 0-1 hours

The 300-level offerings of the same courses listed above also apply.

Choose 2 semester hours from the following courses:

MUSA 105PN Applied Piano .5-1 hours

MUSA 105OR Applied Organ .5-1 hours

MUSI 135 Class Piano 1 hour

Other Requirements (2 hours)

Students must choose 2 semester hours from the following options based on their specialty:

1. *Keyboard specialists*

MUSI 380 Keyboard Improvisation and Service Playing (2 hours)

2. *Non-keyboard specialists*

Music theory and literature (MUSI) coursework (2 hours)

Writing Minor

Minor Requirements

18 credit hours

Complete the following:

WRIT 200 Studies in Writing 3 hours

Students must choose 6-semester hours of writing (WRIT)* or literature (LITR) coursework (6 hours)

Students must choose 9 additional semester hours of writing (WRIT)* coursework (9 hours)

*WRIT electives may not include WRIT 100, 103, 110, or 111

Certificate in Cross-Border Cultural Issues in Business

(Non-degree)

The Certificate in Cross-Border Cultural Issues in Business is offered to International students to prepare them to meet business, writing, and language prerequisites for the George Fox University full-time MBA program.

Certificate Requirements

In order to complete the Certificate of Cross-Border Cultural Issues in Business, students must:

- Satisfactorily complete the curriculum plan identified below with a cumulative GPA of 2.0 or above.
- Achieve no grade lower than a C in any of the courses in the curriculum plan

Required Courses (24 credit hours)

ACCT 271 Principles of Financial Accounting 3 hours

BUSN 240 Business Statistics 3 hours

ECON 211 Principles of Macroeconomics 3 hours

FINC 260 Business Finance 3 hours

GBSN 300 Global Business 3 hours

GBSN 468 English Communication & American Cross-Cultural Adaptation 3 hours

GBSN 469 Cross-Border Research Thesis 3 hours

MGMT 260 Principles of Management 3 hours

BUSN 240 or ECON 211 - If an equivalent course for has already been taken in the student's home university, the student may take an elective course in the College of Business. Electives must be pre-approved by the MBA program director.

Certificate in Conflict Management

(Non-degree)

The Center for Peace and Justice coordinates a special course of study in conflict management designed to give students concentrated preparation for practical peacemaking in their work, church, community and family. Students will study the theory of communication and conflict resolution, be introduced to relevant skills, and equip themselves to apply this learning in a variety of action settings.

Credits taken toward the certificate may also be applied also toward general education, major or minor requirements. Successful students will receive a certificate of completion upon graduation.

Certificate Requirements

Required Courses (15 hours)

Complete the following:

PSCI 310 Conflict Resolution 3 hours
PSCI 410 Community Mediation 3 hours

Choose one of the following:

COMM 200 Persuasive Communication 3 hours
COMM 210 Interpersonal Communication 3 hours

Choose one of the following:

PSYC 381 Counseling 3 hours
MGMT 480 Organizational Behavior 3 hours

Complete the following:

Field experience in a conflict resolution or mediation program or agency tailored to the individual student's needs. (3 semester hours)

Should be taken after PSCI 410 Community Mediation or concurrently with it.

International Experience Certificate

Overview

This certificate recognizes a student's interest in the international sphere by including a mixture of required courses and either an internationally focused internship **or** a foreign cultural immersion experience. Students have a choice of two options. **Option 1** (15 credits) emphasizes cultural immersion. **Option 2** (16 credits) emphasizes a heavier academic component and an internationally focused internship in the United States.

Certificate Requirements

15-16 credit hours

Option 1

Complete the following:

INTL 200 Cultural Geography and Global Relations 3 hours

INTL 230 Introduction to International Affairs 3 hours

INTL 260 Global Awareness Proseminar 1 hour

INTL 375 Cultural Immersion 8 hours

Option 2

Complete the following:

INTL 200 Cultural Geography and Global Relations 3 hours

INTL 230 Introduction to International Affairs 3 hours

INTL 260 Global Awareness Proseminar 1 hour

INTL 330 Politics of the Developing World 3 hours

INTL 370 International Economic Development 3 hours

INTL 475 Internship 3 hours

General Education

- # General Education Program
- # William Penn Honors Program (Alternative General Education)

General Education Program

Overview

General education, or what at George Fox we refer to as the liberal arts core, is that part of the undergraduate college curriculum required of all graduates which gives them a common experience and helps implement the distinctive university mission. Rather than being just a collection of “extra” courses, the liberal arts core is a coherent, sequential program designed by faculty to help students cultivate knowledge, develop skills, and foster dispositions that will help them become integrative, Christ-centered lifelong learners.

At George Fox, five themes are woven throughout the coursework in the liberal arts core: Communication, Collaboration, Critique, Care and Christ. These themes are introduced, reinforced and practiced through the following coursework.

General Education Requirements

Liberal Arts and the Christian Life

Liberal Arts and the Christian Life (15-18 hrs)

Complete the following:

LIBA 100 Knowing and Being Known 3 hours

LIBA 400 Engaging Christ in Transition 3 hours

THEO 101 I Believe 3 hours

THEO 102 I Believe 3 hours

Note: Students can opt to complete BIBL 100 Bible Survey (3) and RELI 300 History and Theology of Christianity (3) in place of THEO 101 (3) and THEO 102 (3), if their course schedule can not accommodate THEO. Students may substitute BIBL 101 Literature of the Old Testament (3) and BIBL 102 Literature of the New Testament (3) and RELI 300 History and Theology of Christianity (3). If substituted, all courses must be taken.

Choose one of the following:

BIBL 215 Biblical Studies 3 hours

BIBL 315 Contemporary Issues in Biblical Studies 3 hours

RELI 215 Topics and Themes in Religion and Theology 3 hours

RELI 260 History and Doctrine of Friends 3 hours

Essential Skills

College Writing Competency (0-3 hours)

Students must fulfill the college writing competency milestone by submitting a proficient writing portfolio and passing a timed writing assessment. The following are ways students can successfully fulfill the writing competency requirements:

- Students enrolled in LIBA 100 have a chance to fulfill both of these requirements through enrollment in Writing Lab instruction during their first semester.
- Students unable to complete the writing portfolio requirement during their enrollment in LIBA 100 must take and pass WRIT 111 (3) to satisfy their portfolio requirement. They must also separately pass the timed writing assessment (administered by the Writing Lab) to complete the writing competency milestone.
- Students unable to pass the timed writing assessment during their enrollment in LIBA 100 will be required to strengthen their writing through a writing improvement plan designed by the Writing Lab until they can pass the timed writing assessment.
- For transfer students who have LIBA 100 waived, a college-level writing course (equivalent to WRIT 110 College Writing) completed at a previous institution will satisfy the writing portfolio requirement. If they have not taken a writing course, they must enroll in and pass WRIT 111 to satisfy the writing portfolio requirement. Transfer students must also pass the timed writing assessment through the Writing Lab in order to satisfy the college writing competency milestone.
- Students transferring to George Fox with an approved transfer degree have their college writing competency satisfied through their transfer degree. For a list of approved transfer degrees please visit our Transfer Credit page.

Communications (3 hours)

COMM 100 Introduction to Communication 3 hours

Health and Human Performance (2 hours)

HHPA 120 Lifelong Fitness 2 hours

Mathematics (0-4 hours)

The math requirement is waived for students entering with a SAT math score of 600 or above (if test was taken prior to March 2016) or a SAT math score of 620 or above (test taken March 2016 or later) or an ACT score of 28 or above.

Other students meet the requirement by successfully completing one of the following classes:

MATH 150 World of Math 3 hours

MATH 180 College Algebra 3 hours

MATH 190 Pre-Calculus Mathematics 4 hours

MATH 201 Calculus I 4 hours

MATH 212 Foundations of Elementary Mathematics II 4 hours

CSIS 201 Intro to Computer Science 3 hours

Broad, Integrative Learning

In addition to these areas and skills which form a foundation for vocation and lifelong learning, a broadly-educated person will have experience in a breadth of domains of knowledge and inquiry. At George Fox, we offer students a choice of how to gain that critical breadth. The first option offers faculty as guides in the process of learning through integrative courses. The second option gives students more choice and

flexibility but requires slightly more coursework and leaves the integrative component of the learning up to the students themselves.

Philosophy and Literature (3-6 hours)

Complete the following:

HUMA 205 Philosophy and Literature 3 hours

OR

Alternate Option: If students choose the alternate option they must complete one literature course and one philosophy course from the following course options.

Choose one of the following:

LITR 236 Ancient World Literature 3 hours

LITR 237 World Literature, Medieval to Modern 3 hours

LITR 238 Contemporary World Literature 3 hours

Choose one of the following:

PHIL 150 Introduction to Philosophy 3 hours

PHIL 180 Ethics 3 hours

PHIL 270 Philosophy of the Arts 3 hours

Fine Arts (3-6 hours)

Complete the following:

HUMA 290 Art, Beauty, and Truth 3 hours

OR

Alternate Option: If students choose the alternate option they must complete two courses from two different disciplines from the following course options.

Art

ARTS 111 Drawing I 3 hours

ARTS 216 Art History Survey to 1450 3 hours

ARTS 217 Art History Survey from 1450 3 hours

Theatre

THEA 100 Acting I: Fundamentals 3 hours

THEA 130 Stagecraft 3 hours

Music

MUSI 100 Music Fundamentals 2 hours

MUSI 110 Understanding Jazz 2 hours

MUSI 120 World of Music 2 hours

History and Social Science (6 hours)

Choose one course from the list of approved courses in History, Political Science, and International Studies AND one course from the list of approved courses in Economics, Psychology, and Sociology.

Choose one of the following:

HIST 110 Western Civilization to 1648 3 hours
HIST 120 Western Civilization from 1648 3 hours
HIST 151 United States to 1865 3 hours
HIST 152 United States from 1865 3 hours
PSCI 230 Introduction to International Affairs 3 hours
INTL 230 Introduction to International Affairs 3 hours
PSCI 150 Introduction to Political Science 3 hours
SSCI 205 Social Scientific Perspectives 3 hours

Choose one of the following:

ECON 211 Principles of Macroeconomics 3 hours
ECON 212 Principles of Microeconomics 3 hours
PSYC 150 General Psychology 3 hours
SOC 150 Principles of Sociology 3 hours
SSCI 205 Social Scientific Perspectives 3 hours

Note: An SSCI 205 Social Scientific Perspectives course may be counted for either the HIST/PSCI/INTL (HPI) requirement or the ECON/PSYC/SOCI (EPS) requirement, with the disciplines being integrated in the course determining which requirement may be met by the course.

- a. If an SSCI 205 course integrates two disciplines from HIST, PSCI, and INTL, then the course will only satisfy the HPI requirement.
- b. If the course integrates two disciplines from ECON, PSYC, and SOCI, then the EPS requirement will be met.
- c. If an SSCI 205 course integrates disciplines across the two lists (e.g. HIST and ECON), the class may be applied to either (but only one) requirement.
- d. A student may take two SSCI 205 courses to complete the History and Social Sciences requirement as long as one course contains an HPI discipline and the other contains an EPS discipline.

Natural Science (4 hours)

Choose one of the following:

BIOL 100 Foundations of Biology 4 hours
BIOL 120 Environmental Science 4 hours
BIOL 211 General Biology I 4 hours
CHEM 120 Foundations of Chemistry 4 hours
CHEM 151 General, Organic, and Biochemistry 4 hours
CHEM 211 General Chemistry I 4 hours
PHYS 150 Physics of Everyday Life 4 hours
PHYS 190 Astronomy 4 hours

PHYS 201 General Physics 4 hours
PHYS 211 General Physics with Calculus 4 hours

Intercultural Experience (0-4 hours)

Students are required to complete and document a significant interaction with a culture different from their own by the time of their graduation. Most students will complete this requirement by participating in a university-sponsored experience such as Juniors Abroad, May Serve or Study Abroad or by taking a course from the approved list below.

Choose one of the following:

GEED 355 Cross-Cultural Experience - Domestic 2 hours
GEED 365 Cross-Cultural Experience - International 2 hours
ARTS 355 Topics in Art History 3 hours
COMM 220 Intercultural Communication 3 hours
COMM 410 Gender Comm Across Cultures 3 hours
COMM 420 Intercultural Communication 3 hours
FREN 101 Introductory French 4 hours
FREN 102 Introductory French 4 hours
FREN 201 Intermediate French 4 hours
FREN 202 Intermediate French 4 hours
FREN 301 Intermediate/Advanced French 4 hours
FREN 302 Intermediate/Advanced French 4 hours
HIST 250 Latin America 3 hours
HIST 340 History of the Middle East 3 hours
HIST 343 History of Southern Africa 3 hours
HIST 360 Modern Russia 3 hours
HIST 380 The African-American Experience in the United States 3 hours
INTL 420 Intercultural Communication 3 hours
INTL 440 World Religions 3 hours
LITR 236 Ancient World Literature 3 hours
LITR 237 World Literature, Medieval to Modern 3 hours
LITR 238 Contemporary World Literature 3 hours
LITR 480 International Women's Voices 3 hours
MAND 101 Introductory Mandarin I 3 hours
MAND 102 Introductory Mandarin II 3 hours
MUSI 130 Music in World Cultures 2 hours
PSYC 353 Culture and Psychology 3 hours
RELI 440 World Religions 3 hours
SOC 310 Cultural Anthropology 3 hours
SOC 380 Race and Ethnicity 3 hours
SPAN 101 Introductory Spanish 4 hours
SPAN 102 Elementary Spanish 4 hours
SPAN 201 Intermediate Spanish 4 hours
SPAN 202 Intermediate Spanish 4 hours
SPAN 301 Intermediate/Advanced Spanish 4 hours
SPAN 302 Advanced Spanish 4 hours
SPAN 210 Spanish for Medical Personnel 3 hours
SPAN 303 Spanish for Heritage Speakers 4 hours

Notes:

- LITR 236,237,238 may be taken for Humanities credit or Intercultural credit, but one course cannot be counted for both requirements.
- Students who take GEED 365 Cross-Cultural Experience - International (2) must also complete the second part of the course GEED 465 (1), offered the May term after GEED 365.

Alternative option:

Students may choose to design their own intercultural experience. For example, a student may participate in a short-term cultural immersion trip or a longer-term interaction in a local, but culturally-different community. If the intercultural experience does not have academic credit attached to it, it must be approved in advance by the Center for Study Abroad no later than the first week of the student's senior year, and must be completed by the time of graduation. Past experiences are not eligible options to meet this requirement. Please contact the Center for Study Abroad for specific requirements to be eligible for this option, as well as requirements to meet approved intercultural experiences.

Honors Program

Overview

The William Penn Honors Program is a Christ-centered Great Books program for high-achieving undergraduate students at George Fox University.

Students enrolled in the honors program take one Great Books seminar each semester, in addition to major coursework and other electives within the university. Because the honors program provides a substantial liberal arts foundation, the program fulfills the general education requirements for all honors students, with the exception of one math and one lab science course.

Program Distinctives

- *Liberal Arts Foundation:* The foundation provided by the William Penn Honors Program is an ideal complement to all fields of study, as students gain proficiency in writing, reading comprehension, oral communication, charitable discourse, collaborative problem-solving, analysis, and creative and critical thinking. Honors students also develop an awareness of the history of ideas, enabling intelligent, informed engagement with a range of contemporary topics. Most of all, students learn to cultivate a rich interior life and a clear moral sensibility that will enrich their own lives, as well as the lives of their neighbors.
- *Reading and Writing:* The Great Books curriculum spans four years and is structured chronologically, beginning with the ancient world and ending in the present. In addition to reading and discussing the Great Books, honors students write essays that gradually progress in length and complexity, culminating in the Senior Thesis. Each course also includes smaller writing assignments and exercises, as well as comprehensive written and/or oral exams.
- *Christ-Centered Learning:* Over the course of the program, William Penn honors students are deeply immersed in Christian theology and history. Each seminar course includes texts from prominent Christian voices of the era, and scripture is interwoven throughout.
- *Socratic Discussion:* Within the seminar, professors use a modified version of the Socratic method, guiding the discussion through questioning, placing the responsibility of engagement on the students. This student-centered approach creates an interactive and dynamic learning environment in which students must be active, rather than passive, continually challenging each other to read and think more deeply.
- *Student/Faculty Ratio:* Each seminar is moderated by two professors and limited to around 18 students, which results in an average student/faculty ratio of 9:1. This low student/faculty ratio allows the honors professors to closely mentor honors students, both within the seminar and in one-on-one settings outside of class.

- *Academic Rigor.* Students in the honors program are expected to maintain a cumulative GPA of 3.0 or above. Failure to maintain this standard may result in dismissal from the honors program.

Honors Requirements

(46 hours)

Students take blocks of 6-credit hours for six semesters, and a final 3-credit thesis course for a total of 39 hours.

Students must also meet the general education math requirement and take one lab science course. Collectively, these courses constitute the general education package for honors students. Total hours required: 46 hours.

Core Requirements (39 hours)

Complete the following:

HNRS 150 Athens & Jerusalem 6 hours
 HNRS 190 Rome & the Early Church 6 hours
 HNRS 250 The Medieval World 6 hours
 HNRS 290 Renaissance & Reformation 6 hours
 HNRS 350 The Rise of Modernity 6 hours
 HNRS 450 The Twentieth Century 6 hours
 HNRS 490 Senior Synthesis 3 hours

Mathematics

Waiver of 3 hours of math requirement for an SAT score of 620 or above (the 3 credit hours waived will be added to elective credits for the degree)

Choose one of the following:

CSIS 201 Intro to Computer Science 3 hours
 MATH 150 World of Math 3 hours
 MATH 180 College Algebra 3 hours
 MATH 190 Pre-Calculus Mathematics 4 hours
 MATH 201 Calculus I 4 hours
 MATH 212 Foundations of Elementary Mathematics II 4 hours

Natural Science

Choose one of the following:

BIOL 100 Foundations of Biology 4 hours
 BIOL 120 Environmental Science 4 hours
 BIOL 211 General Biology I 4 hours
 CHEM 120 Foundations of Chemistry 4 hours
 CHEM 151 General, Organic, and Biochemistry 4 hours
 CHEM 211 General Chemistry I 4 hours
 PHYS 150 Physics of Everyday Life 4 hours
 PHYS 190 Astronomy 4 hours
 PHYS 201 General Physics 4 hours

PHYS 211 General Physics with Calculus 4 hours

Degrees and Minors

Academic Programs

[Majors and Minors Listing](#)

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Majors and Minors Listing

Academic Programs

Major and Minor Requirements

Preprofessional Programs/Advising Information

Prelaw Program/Advising Information

Program Name	Degrees Offered	Academic Department
Accounting	Bachelor of Arts, Minor	Business
Applied Science	Bachelor of Science	Engineering
Art Administration and Visual Culture	Bachelor of Arts	Art and Design
Art History	Minor	Art and Design
Biblical Studies	Bachelor of Arts, Interdisciplinary Studies, Minor	Religious Studies
Biochemistry	Bachelor of Science	Chemistry
Biology	Bachelor of Science, Minor	Biology
Concentrations in:		
<ul style="list-style-type: none"> • Cell and Molecular Biology • Ecology and Field Biology • General Biology • Systems and Structural Biology 		
Biology	Bachelor of Arts	Biology Business
Administration	Bachelor of Arts, Minor	Business
Camping: Administrative	Minor	Religious Studies
Camping: Programming	Minor	Religious Studies
Chemistry	Bachelor of Science, Minor	Chemistry
Christian Ministries	Bachelor of Arts, Interdisciplinary Studies	Religious Studies
Concentrations in:		
<ul style="list-style-type: none"> • Cross-Cultural Ministry • Theology and Vocation • Youth Ministry 		
Christian Ministries: Theology and Vocation	Minor	Religious Studies
Christian Ministries: Cross-Cultural Ministry	Minor	Religious Studies

Program Name	Degrees Offered	Academic Department
Christian Ministries: Youth Ministry	Minor	Religious Studies
Cinematic Arts Concentrations in:	Bachelor of Arts, Minor	Communication
<ul style="list-style-type: none"> • Animation • Audio Production • Film and Video Production • Film Studies 		
Coaching	Minor	Health and Human Performance
Cognitive Science Concentrations in:	Bachelor of Science	Psychology
<ul style="list-style-type: none"> • General • Human and Artificial Intelligence • Neuroscience 		
Communication Concentrations in:	Bachelor of Arts, Minor	Communication
<ul style="list-style-type: none"> • Human Communication • Organizational Communication • Public Relations 		
Computer Science Concentrations in:	Bachelor of Science, Minor	Computer Science
<ul style="list-style-type: none"> • Cyber Security • General 		
Conflict Management	Certificate	Politics
Criminal Justice	Minor	Social Work, Sociology
Economics	Bachelor of Arts, Minor	Business
Elementary Education	Bachelor of Science	Education
Engineering Concentrations in:	Bachelor of Science	Engineering
<ul style="list-style-type: none"> • Biomedical Engineering • Civil Engineering • Computer Engineering • Electrical Engineering • Mechanical Engineering 		

Program Name	Degrees Offered	Academic Department
English	Bachelor of Arts	English
Entrepreneurship	Minor	Business
Exercise Science	Bachelor of Science	Health and Human Performance
Finance	Bachelor of Arts, Minor	Business
Financial Planning	Bachelor of Science	Business
French	Minor	World Languages and Cultural Studies
Global Business	Bachelor of Arts, Minor	Business
Graphic Design	Bachelor of Arts, Minor	Art and Design
Health	Minor	Health and Human Performance
Health and Human Performance	Bachelor of Science, Interdisciplinary Studies	Health and Human Performance
Concentrations in:		
<ul style="list-style-type: none"> • Fitness Management • Health Preteaching • Physical Education Preteaching 		
Health Teaching	Minor	Health and Human Performance
History	Bachelor of Arts, Minor	History
Information Systems	Bachelor of Science, Minor	Computer Science
Illustration	Bachelor of Arts	Art and Design
Interior Design	Bachelor of Fine Arts (BFA)	Art and Design
International Studies	Bachelor of Arts, Minor, Certificate	International Studies
Journalism	Minor	Communication
Literature	Minor	English
Management	Bachelor of Arts, Minor	Business
Marketing	Bachelor of Arts, Minor	Business
Mathematics	Bachelor of Science, Minor	Math
Music	Bachelor of Arts, Interdisciplinary Studies, Minor	Music
Concentrations in:		
<ul style="list-style-type: none"> • Composition • General • Performance • Preteaching 		
Music Education	Bachelor of Arts	Music
Music Theatre	Minor	Music

Program Name	Degrees Offered	Academic Department
Nursing	Bachelor of Science in Nursing (BSN)	Nursing
Peace Studies	Minor	Politics
Philosophy	Bachelor of Arts, Minor	Religious Studies
Politics	Bachelor of Arts, Minor	Politics
Psychology	Major (BA or BS), Minor	Psychology
Quaker Studies	Minor	Religious Studies
Recreation	Minor	Health and Human Performance
Religion	Interdisciplinary Studies, Minor	Religious Studies
Romance Languages	Minor	World Languages and Cultural Studies
Social Welfare	Minor	Social Work
Social Work	Bachelor of Social Work (BSW)	Social Work
Sociology	Bachelor of Arts, Minor	Sociology
Concentrations in:		
<ul style="list-style-type: none"> • General • Global and Intercultural Studies • Social Justice and Communities 		
Spanish	Bachelor of Arts, Minor	World Languages and Cultural Studies
Studio Arts	Bachelor of Arts	Art and Design
Teaching English to Speakers of Other Languages (TESOL)	Minor	World Languages and Cultural Studies
Theatre	Bachelor of Arts, Interdisciplinary Studies, Minor	English and Theatre
Concentrations in:		
<ul style="list-style-type: none"> • Acting/Directing • Design/Technology 		
Women's Studies	Minor	English
Worship Arts Minor	Minor	Music
Writing	Minor	English

Major and Minor Requirements

Admission to a Major

Students may enroll at George Fox University with or without a specific major in mind. However, students must formally declare their major with the registrar. A first-year student should declare his or her major by the beginning of the second semester.

Some departments have an application and screening process for admission to a major. In those cases, the declaration of major form is considered to be a statement of intent, and the process is complete only when the department admits the student to the major.

Admission to the university does not imply automatic admission to a major. Entry into George Fox University may be with a major as an objective, but there is a process for declaring a major.

In most cases, admission to a major will include meeting initial standards, as in the example of admission to teacher education and music. Admission to a major is normally accomplished no later than the end of the junior year, or before the completion of 90 credits.

A major is successfully completed when all major courses are completed with no grade below a C- and with a major GPA of 2.0 or above. A minimum of 10 semester hours within the major must be completed in residency.

Interdisciplinary Studies Majors

The interdisciplinary studies major consists of a minimum of 48 semester hours with either a 24/12/12-hour option from three fields or a 24/24-hour option from two fields. A field must consist of approved courses from any traditional undergraduate major, minor, or concentration currently offered according to the undergraduate catalog. Of these hours, 30 must be upper division. The 24/12/12 and the 24/24 options are permitted at the discretion of each department. The designation of the degree (BA or BS) for the 24/12/12 option is determined by the subject of the 24-credit concentration. The designation of the degree (BA or BS) for the 24/24 option is determined by the subject of both 24-hour concentrations. If the degrees for the two subjects differ, the student may elect BA or BS. The student must complete a contract form prepared in consultation with his or her advisor, the registrar, and the department chairperson of each concentration.

A student pursuing an interdisciplinary studies major as a second degree or second major may not choose as a subject area a discipline that is the student's first major or minor.

Selection of a Minor

A minor is a package of elective courses that have a common bond and that identify certain interests and competencies. Usually a minor consists of an approved group of courses with no fewer than 18 semester hours, 6 of which must be upper-division credit. The registrar's office will provide information on requirements, or some are listed in this catalog. A minor is successfully completed when all minor courses are completed with no grade below a C- and with a minor GPA of 2.0 or above.

Preprofessional Programs

Premedicine/Predental/Preveterinary Program

George Fox University is pleased with the excellent success students have had in gaining admission to medical, dental and veterinary schools. Students who wish to pursue a career in medicine, dentistry or veterinary medicine usually select a major in biology or chemistry. They may, however, choose any academic major the university offers as long as they take certain specific courses required by the professional schools. George Fox University offers all of the science and mathematics courses required by the professional schools of the region. Even though specific requirements differ with each medical school, the requirements uniformly include the following:

BIOL 211 General Biology I

BIOL 212 General Biology II

CHEM 211 General Chemistry I

CHEM 212 General Chemistry II

CHEM 331 Organic Chemistry I

CHEM 332 Organic Chemistry II

PHYS 201 General Physics I

PHYS 202 General Physics II

One year of mathematics, usually fulfilled by MATH 201 Calculus I and MATH 202 Calculus II.

Other highly recommended courses include:

BIOL 310 Developmental Biology

BIOL 322 Comparative Vertebrate Anatomy

BIOL 350 Genetics BIOL 370 Microbiology BIOL 420 Cell Biology

CHEM 310 Analytical Chemistry

CHEM 341 Biochemistry

CHEM 440 Thermodynamics

It is important to consult with your academic advisor early in setting up a plan for a strong program. Students should be aware that, in addition to meeting the minimal entrance requirements, good grades (3.5 grade point average or above) and a strong performance on the national admission tests (MCAT, DAT, and VAT, usually taken in the spring of the junior year) are essential. Also necessary for admission are letters of recommendation and an interview with the professional school's admission committee.

Our world needs Christian health professionals strong in character and maturity who have had broad educational and social experiences. George Fox University offers excellent opportunities to build these qualities through academic courses in areas such as ethics, psychology, computer science, literature, history, and foreign languages, and through varied social opportunities.

Prelaw Program

Students considering law school enjoy a wide range of options in their course of study, which can be worked out with their prelaw advisor. The best preparation for

law school (and a legal career) emphasizes a broad liberal arts education as an undergraduate. Students need to prepare themselves to understand complex real-world problems from as many perspectives as possible.

Therefore, prelaw students may choose from many different majors, supplementing the major with electives and general education options that stress writing and oral communication skills, logical and critical thinking, close reading of difficult material, and deeper understanding of society and culture. Prewlaw students are strongly encouraged to take PSCI 260 Introduction to Law, and to join in activities with other prelaw students.

The university's prelaw advisor will work with students to help design their courses of study, plan for entry into law school, and sponsor events to give students exposure to the law and the legal profession.

Alternative Credit

Course Challenge Programs

Students may reduce the number of required courses and add flexibility to their undergraduate years through one or more of the following programs.

Advanced Placement (AP)

College credit may be granted in several subject areas to the student who completes a college-level course in high school and receives a score of three or better through the Advanced Placement program sponsored by the College Entrance Examination Board. Students expecting advanced placement credit should request, at the time the test is taken, for scores to be sent to George Fox University.

College Level Examination Program (CLEP)

The Educational Testing Service of the College Board provides nationally recognized standardized testing through which college credit may be earned or course proficiency verified. This is the College Level Examination Program (CLEP). Testing through the CLEP General Examinations is designed to verify competency in general education. Tests may be taken in five areas for a maximum of 32 semester hours of credit. (General examinations are to be taken prior to the completion of the first semester of enrollment as a freshman at George Fox University.) Testing through the CLEP Subject Examinations provides verification of competency in selected academic fields such as foreign language and mathematics. These may be taken at any time (unless concurrently enrolled in an equivalent course) and assume competency has been gained in nonclassroom settings.

Credit by Examination

Courses offered at George Fox University for which CLEP testing is not available may be challenged by examination at the discretion of the department. There is a test fee of \$60 per examination. See the registrar for details.

International Baccalaureate (IB)

College credit may be granted in several subject areas to students who complete college-level work through the program. A minimum score of five is required on High Level examinations for credit consideration. Students must provide the registrar's office with a copy of the transcript to receive consideration. Credits awarded as a result of documentation will be accepted as transfer credit.

Proficiency Test

A student may fulfill general education and some program requirements or become eligible for registration in advanced courses by passing a proficiency test for the area involved. No fee is charged for proficiency testing, and credit is not granted. Typical academic areas for which proficiency tests are available are languages, music, Bible and physical education activity courses.

A placement test is generally required prior to registration for George Fox University modern language classes. Placement tests are generally given during new student orientation.

A student from a non-English-speaking nation may fulfill the language requirement by demonstrating proficiency in the English language.

Graduation Requirements

Degrees

George Fox University confers these undergraduate degrees: bachelor of arts, bachelor of fine arts, bachelor of science, bachelor of science in athletic training, bachelor of science in nursing, and bachelor of social work.

Requirements

A student wishing to receive a bachelor of arts, bachelor of fine arts, bachelor of science, bachelor of science in athletic training, bachelor of science in nursing, or a bachelor of social work degree must meet the following requirements:

1. Accumulate at least 126 semester hours with a minimum cumulative and major GPA of 2.0 (engineering and music education majors must complete additional requirements but may graduate within the 126-hour minimum should program requirements be waived, such as through sufficient SAT scores). The GPA is computed on work taken at George Fox University only;
2. Accumulate at least 42 upper-division semester hours (courses numbered 300 or above)
3. Complete the general education requirements
4. Complete a major in a chosen area with no grade below a C-
5. Complete at least 30 semester hours in residency (20 hours must be in senior year; 20 of the last 30 hours must be completed at George Fox University)
6. Complete at least 10 hours of one's major in residency
7. File an Application for Degree form not later than completion of 93 semester hours toward graduation (normally two semesters before expected graduation)
8. Pay in full all accounts at Student Financial Services

In order to participate in commencement and baccalaureate ceremonies, a student must be meeting all commencement eligibility requirements. Information regarding exceptions can be found on the commencement page.

Second Degree

A student wishing to receive a second or concurrent degree must meet the following requirements:

1. Complete a minimum of 30 semester hours for the "second" degree above the minimum 126 hours required for the "first" degree
2. Meet the general education and major requirements for each degree
3. Be in attendance the last two semesters, or 30 hours, preceding the awarding of the "second" degree
4. Pay an additional \$20 graduation fee if participating in one ceremony; otherwise, pay an additional \$50 graduation fee for the "second" degree

The above requirements also apply to students who earned their first bachelor's degree at another institution. For these students no general education is required unless the

major has specific general education requirements which must be satisfied. Transfer credit will only be awarded for major requirements of the second degree and limited so as not to reduce the minimum requirements above.

Undergraduate Course Descriptions

(Courses are listed alphabetically by prefix. For semesters off campus course prefixes, see the semesters off-campus page.)

Course Prefix	Subject
ACCT	Accounting
ACLA	American Culture and Language
AMSL	American Sign Language
ARTD	Art and Design: Design
ARTS	Art and Design: Studio
BIBL	Biblical Studies
BIOL	Biology
BUSN	Business
CHEM	Chemistry
CHMN	Christian Ministries
CINE	Cinematic Arts
COMM	Communication
CPAS	Career Preparation and Academic Success
CSIS	Computer and Information Science
ECON	Economics
EDUC	Education
ENGB	Engineering, Biomedical
ENGC	Engineering, Civil
ENGE	Engineering, Electrical
ENGM	Engineering, Mechanical
ENGR	Engineering, General
ENPR	Entrepreneurship
ESLA	English as a Second Language
FINC	Finance
FREN	French
GBSN	Global Business
GEED	General Education
GEOG	Geography
GREK	Greek
GRMN	German
GSCI	General Science
HEBR	Hebrew
HHPA	Human Performance Activity
HHPE	Human Performance Education
HIST	History
HLTH	Health Education
HNRS	Honors

Course Prefix	Subject
HUMA	Humanities
INTD	Interior Design
INTL	International Studies
JOUR	Journalism
JPNS	Japanese
LEAD	Leadership Studies
LIBA	Liberal Arts
LITR	Literature
MAND	Mandarin
MATH	Mathematics
MGMT	Management
MKTG	Marketing
MUSA	Music, Applied Music and Ensembles
MUSI	Music, Theory and Literature
NURS	Nursing
PHIL	Philosophy
PHYS	Physics
PSCI	Political Science
PSYC	Psychology
RELI	Religion
SOCI	Sociology
SPAN	Spanish
SWRK	Social Work
THEA	Theatre
THEO	Theology
WRIT	Writing

ACCT

ACCT 271 Principles of Financial Accounting

3 hours. Accounting is the language of business. This course provides an introductory overview of accounting from a user perspective. Its purpose is to give students a basic understanding of the logic behind the principles of accounting, enabling them to prepare, read, analyze, and interpret financial statements for the purpose of decision making. Prerequisite: BUSN 110 and Sophomore standing or above.

ACCT 272 Principles of Managerial Accounting

3 hours. This course is a continuation of ACCT 271. It emphasizes the uses of accounting data by management to make both planning and control decisions. Students will continue to analyze financial statements to assess a company's liquidity, profitability, capital structure, and stock market ratios. Students will also develop operating budgets and use them to evaluate performance. Cost information will be classified by behavior, and allocated under a cost-beneficial system that assists managers in using relevant costs for decision making. Prerequisite: ACCT 271 Principles of Financial Accounting.

ACCT 275 Field Experience

1-3 hours. An on-the-job experience designed to acquaint the student with the accounting profession. Pass/No Pass.

ACCT 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

ACCT 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ACCT 350 Taxation

3 hours. This is an introductory course on fundamental concepts in taxation. The objective of this course is learning to recognize major tax issues inherent in business and financial transactions. The course will emphasize measurement and taxation of business income, along with an introduction to taxation of individuals. Prerequisites: ACCT 271 Principles of Financial Accounting and ACCT 272 Principles of Managerial Accounting.

ACCT 370 Accounting Information Systems

3 hours. This course will emphasize the mechanical aspects of accounting and will cover both manual and computerized accounting systems. The course is designed for the accounting major. Prerequisite: ACCT 271 Principles of Financial Accounting and ACCT 272 Principles of Managerial Accounting.

ACCT 371 Financial Accounting and Reporting I

3 hours. A comprehensive study of generally accepted accounting principles, including a review of their historical development and a thorough study of the underlying theory supporting them. A detailed study of many specific problems associated with the measurement and reporting of complex business transactions. Prerequisite: ACCT 271 Principles of Financial Accounting and ACCT 272 Principles of Managerial Accounting.

ACCT 372 Financial Accounting and Reporting II

3 hours. A comprehensive study of generally accepted accounting principles, including a review of their historical development and a thorough study of the underlying theory supporting them. A detailed study of many specific problems associated with the measurement and reporting of complex business transactions. Prerequisite: ACCT 371 Financial Accounting and Reporting I.

ACCT 373 Financial Accounting and Reporting III

3 hours. A comprehensive study of generally accepted accounting principles, including a review of their historical development and a thorough study of the underlying theory supporting them. A detailed study of many specific problems associated with the measurement and reporting of complex business transactions. Prerequisite: ACCT 371 Financial Accounting and Reporting I.

ACCT 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ACCT 405 Volunteer Tax Assistance

1 hour. This course is being offered in conjunction with the Internal Revenue Service and the AARP to give the student skills and training needed to prepare income tax returns for low-to-moderate income people in the community. We will offer free tax preparation and electronic filing for the community.

ACCT 450 Advanced Analytics in Accounting

3 hours. This class will explore the use of analytics by professional accountants. Starting with the generation of business question, students will use a decision-making framework to draw appropriate and ethical conclusions to business problems. Students will understand the principles of data analysis, including but not limited to, systems, collecting, cleaning, analyzing and visualizing data. During the course, students will also gain hands-on experience with software tools used by accounting professionals. Prerequisites: MATH 180 College Algebra, CSIS 201 Introduction to Computer Science, ACCT 370 Accounting Information Systems, and ACCT 371 Financial Accounting & Reporting I.

ACCT 471 Advanced Accounting

3 hours. Accounting for specific types of entities, such as partnerships and not-for-profit organizations. The accounting problems encountered in business combinations and foreign currency translation will be studied. Prerequisites: ACCT 272 Principles of Managerial Accounting and ACCT 370 Accounting Information Systems.

ACCT 472 Auditing

3 hours. An introduction to the standards and procedures observed by Certified Public Accountants in the examination of financial statements. Special areas of study will include evaluation of internal control, ethical considerations, legal environment, the auditor's reports, and evidence-collecting and evaluation. Prerequisites: ACCT 370 Accounting Information Systems, ACCT 371 Financial Accounting and Reporting I and CSIS 201 Introduction to Computer Science.

ACCT 475 Field Experience

1-8 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies. Pass/No Pass.

ACCT 480 Business Taxation

3 hours. This course is an expansion of how tax laws affect individuals, partnerships, corporations, and S corporations. Additional topics in taxation are introduced with emphasis on laws applicable to estates, gifts, trusts, and tax exempt organizations. Prerequisite: ACCT 350 Taxation.

ACCT 485 Selected Topics

3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

ACCT 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ACLA

ACLA 181 Reading and Vocabulary for Academia

3 hours. The goal of this course is to develop facility in reading and synthesizing a variety of academic texts and literary genres. Students will increase their academic vocabulary, ability to comprehend complex syntax, reading rate, and comprehension. This course prepares students for the reading required in academic undergraduate programs.

ACLA 182 Writing and Research for Academia

4-5 hours. The goal of this course is facility in the conventions of academic writing in English, including the effective use of complex sentence structure, essay organization, academic vocabulary and source material. Students develop research skills using library sources and effectively integrating their findings into research essays by appropriately summarizing, paraphrasing, quoting and citing sources.

ACLA 183 Speech and Listening for Academia

2-3 hours. This course builds fluency, grammatical and pronunciation accuracy, academic vocabulary, competence in classroom discourse, and oral presentation skills, as well as listening comprehension and note-taking skills for various styles of academic lectures and discussions.

ACLA 285 Selected Topics

1-3 hours. Occasional special courses are chosen to fit the needs and interests of students.

ACLA 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ACLA 485 Selected Topics

1-3 hours. Occasional special courses chosen to fit the needs and interests of students interested in American Culture and Language.

ACLA 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

AMSL

AMSL 101 American Sign Language I

3 hours. An introduction to American Sign Language (ASL), the language of the deaf culture in the United States and Canada. The course introduces ASL signs and basic ASL grammar and syntax, and develops an understanding and appreciation of the adult deaf culture. Receptive and expressive skills in conversational ASL are taught.

AMSL 102 American Sign Language II

3 hours. An introduction to American Sign Language (ASL), the language of the deaf culture in the United States and Canada. The course introduces ASL signs and basic ASL grammar and syntax, and develops an understanding and appreciation of the adult deaf culture. Receptive and expressive skills in conversational ASL are taught. Prerequisite: AMSL 101 American Sign Language I.

AMSL 201 American Sign Language III

3 hours. This course builds on skills learned in American Sign Language (ASL) II, adding more complex ASL grammatical features and vocabulary, short stories, narratives, and dialogues. The course will include description of general surroundings, appropriate sequencing, temporal aspects and conditionals. Prerequisite: AMSL 102 or instructor permission. Lecture 3 hours per week

AMSL 202 American Sign Language IV

3 hours. This course expands on the development of American Sign Language (ASL) vocabulary and grammar, including the use of two to three character role shifts. Students describe settings, and explain or discuss everyday objects and their use, step-by-step processes, cause and effect, and culturally significant topics relating to the Deaf Community. Prerequisite: AMSL 201 with a grade of "B" or higher, or equivalent course with instructor permission. Lecture 3 hours per week.

AMSL 475 Field Experience

1-3 hours. Supervised experience in a situation demanding extensive use of American Sign Language. Admission and credit hours determined by instructor. Pass/No Pass.

ARTD

ARTD 110 Creative Suite

3 hours. This course is an introduction to industry-standard graphic design applications such as Adobe Illustrator, Photoshop and InDesign. Additional course fee required.

ARTD 200 Design Process and Thinking

3 hours. An examination of the variety of structures, processes, and methods designers use to create ideas, overcome obstacles, and engage audiences. Problem identification, creative strategy, ethnography, and research methods are considered as students explore a variety of approaches to ideation and creation.

ARTD 211 Illustration and Logo Craft

1 hour. Building on skills developed in Creative Suite, this project-based course focuses on the creation and technical execution of vector-based design and illustration. Additional course fee is required. Prerequisite: ARTD 110 Creative Suite

ARTD 212 Image Construction and Photoshop

1 hour. Building on skills developed in Creative Suite, this project-based course focuses on intermediate to advanced techniques employed in the creation of raster-based images for use in illustration and design projects. Additional course fee is required. Prerequisite: ARTD 110 Creative Suite

ARTD 213 Digital Layout

1 hour. Building on skills developed in Creative Suite, this project-based course focuses on intermediate to advanced techniques that pertain to the layout and creation of flat, multi-page, and digital works of design. Additional course fee is required. Prerequisite: ARTD 110 Creative Suite

ARTD 220 Typography

3 hours. An introduction to typography including type history, typefaces, type selection, layout, the use of type in effective designs, and creative approaches to using type. Additional course fee required. Prerequisite: ARTD 110 Creative Suite

ARTD 240 Graphic Design/Visual Communication for Non-Majors

3 hours. This course provides the non-designer with an overview of the principles and practices that govern commercial visual communication. In addition to an introduction to the industry-standard Adobe software products employed in production, students will learn how to work successfully with professionals within the broader field of visual communications. Additional course fee required.

ARTD 250 Print and Packaging

3 hours. A focused study of design for printed 2D and 3D objects. Topics include project ideation, paper qualities, technical execution, working with print templates, document preparation, and the creation of production-ready work. Additional course fee is required. Prerequisite: ARTD 220 Typogpgraphy

ARTD 270 Web Design I

3 hours. An introduction to web design that covers content, design, and front-end web development, including HTML, CSS, and standard user interface models. Students will review best practices in visual communication and engage in hand-coding while exploring site production methods, design models and creating functional web pages. Additional course fee is required. Prerequisite: ARTD 110 Creative Suite

ARTD 285 Selected Topics

1-3 hours. Additional course fee required.

ARTD 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ARTD 307 Color Theory for Designers

3 hours. This course introduces students to the aesthetic, historical, perceptual, sociological and psychological marketing aspects of color. Students will explore color through experimentation, observation, and evaluation. Time will be given to in-depth studies of design projects to analyze and apply color theory to the students specific area of interest. Additional course fee required.

ARTD 351 Motion Graphics

3 hours. The course is focused on kinetic typography, video compositing and visual effects. It includes the primary tools, concepts, workflows and practices of digital and time-based media. Additional course fee required. Prerequisite: ARTD 110 Creative Suite

ARTD 360 Illustration I

3 hours. This course is a study of personal styles and professional illustration skills in a graphic design and commercial context. Students will learn the technical processes of research and image creation as they apply to story telling in commercial applications. Prerequisites: ARTS 111 Drawing I, ARTD 110 Creative Suite. Additional course fee is required.

ARTD 363 History of Visual Communication

3 hours. This course surveys graphic communication through history, and the impact of technology on the visual qualities of graphic design, advertising, fashion, media, architecture and industrial design. Beginning with prehistoric petroglyphs and concluding with the World Wide Web, this course will examine how culture shapes the practice of graphic design as well as how design shapes its corresponding culture. Additional course fee required.

ARTD 373 Creative Action Studio

3 hours. An applied studio of design theory and the way that design projects impact community. Students will research, plan and propose projects to better communities based on discussions of the social, cultural, environmental and communal impact of design. Additional course fee is required.

ARTD 383 Interaction Design

3 hours. This course focuses on the design for interactive objects and experiences. Topics include navigation, information architecture, user experience, development of effective interfaces, and kinetic design. Additional course fee is required. Prerequisite: ARTD 220 Typography

ARTD 393 Design in Practice

2-3 hours. This course couples a 1 or 2-hour student internship or professional experience with a 1-hour seminar that explores workplace communication and problem solving. Additionally, students will gain exposure to common business practices such as the development of contracts, estimates, invoices, accounting, promotion, and project management. Prerequisite: Junior status or instructor approval.

ARTD 417 The Business of Design

3 hours. This course explores standard business procedures commonly associated with the practice of design. Students will study various types of design practices, financial management and compensation, ethical practices, professional development, legal liability, and issues related to licensing and certification. The management of a typical design project will be studied, including writing proposals and contracts, specifications, bidding procedures, budgets, construction schedules, vendor negotiations and collaboration, and project administration.

ARTD 453 Systems and Identity

3 hours. In this exploration of visual thinking and systematic approaches to graphic design including brand development, identity systems and generative design methods, students will develop, design and present projects with clear communicative goals. Additional course fee is required. Prerequisite: ARTD 220 Typography

ARTD 461 Illustration II

3 hours. Applied illustration projects that allow for exploration of approaches to design across a variety of self-selected media. Students in this course are encouraged to develop a personal approach to illustration through a process of research, making, evaluating, presenting, and reflecting on their work. Creative strategy, content, technique, media, and subject matter will vary based on the semester and the students. Additional course fee is required. Prerequisite: ARTD 360: Illustration I.

ARTD 462 Dimensional Illustration

3 hours. This course explores the creation of new media imagery in multi-dimensional digital space including 3D and 4D approaches to illustration. Additional course fee is required. Prerequisite: ARTD 110 Creative Suite and ARTD 360 Illustration I.

ARTD 470 Pattern Development

3 hours. A pattern in sewing and fashion design is the template from which the parts of a garment are traced onto fabric before cutting out and assembling. Students will master skills for developing patterns from assigned sketches or their own designs. They will use a basic sloper set as their starting point for learning. A final project applying their own design creations is the culminating experience. Accurate industry terminology will be used and implemented into the class demonstrations and projects. Prerequisite: ARTD 230 Sewn Products Development, ARTD 280 Apparel: From Concept to Consumer, ARTD 303 Textiles Foundations.

ARTD 471 Web Design II

3 hours. This course builds on the content from web design I and offer a particular focus on responsive design that translates between screen sizes and devices. Students will critically examine the structure and functionality of traditional websites, learn advanced techniques, challenge common practices while proposing alternative models, and engage in the development of multi-page websites. Additional course fee is required. Prerequisite: ARTD 270 Web Design I.

ARTD 475 Design Internship

3 hours. The student will engage in a career-related Internships for Design which provides on-site work at an approved business or organization site. Prerequisite: instructor's permission. Course can be taken up to three times for a total of 9 elective credit hours. Pass/No Pass.

ARTD 481 Collaborative Design I

3 hours. Applied design projects that allow students to work collaboratively with regional clients. Within this course, students will work in teams as they move projects from

concept and quote to preparation for production. Designers will develop work across a variety of media and learn to manage client relationships while producing work that meets the needs of real audiences. Additional course fee is required. Prerequisite: Junior Status.

ARTD 482 Collaborative Design II

3 hours. A revisitation of Collaborative Design I with the increased expectation of leadership and creative direction of teams. Students will operate as creative directors, leading teams of fellow students as they explore leadership, ideation, and collaboration strategies. Additional course fee is required. Prerequisite: ARTD 481: Collaborative Design I.

ARTD 485 Selected Topics

1-3 hours. Additional course fee required.

ARTD 492 Portfolio Development

2 hours. This course focuses on the organization and preparation of a portfolio showcasing a student's creative work in preparation for employment in the field of design. Students will explore visual composition and organization, document assembly methods and various reproduction image management techniques. Computer photo editing and printing are used to a paper and digital portfolio. The implications of a professional portfolio to gain employment is emphasized. Additional course fee required.

ARTD 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ARTS

ARTS 101 Basic Design 2-D

3 hours. An introduction to materials, techniques, and theory related to two-dimensional design. Additional course fee is required.

ARTS 102 Basic Design 3-D

3 hours. This course focuses on three-dimensional design. Hands-on projects are the primary learning mode. Additional course fee is required.

ARTS 105 Art & Design Professional Networking Seminar

1 hour. This seminar course will meet weekly to focus on theory, concepts and methodology of art historical study and their application by engaging students in discourse surrounding lectures of visiting professional artists. Investigations of film and writing will be a secondary approach to this course. Must be taken minimum 5 out of 8 semesters in students' program. Satisfies: core major requirement. Additional course fee required.

ARTS 111 Drawing I

3 hours. Art majors given preference. This course is a study of materials, methods, and techniques used for drawing with pencil, ink, charcoal, and other drawing media. Additional course fee is required.

ARTS 112 Drawing II

3 hours. Art majors given preference. This course is a study of materials, methods, and techniques used for drawing with pencil, ink, charcoal, and other drawing media. Additional course fee is required. Prerequisite: ARTS 111 Drawing I.

ARTS 201 Beginning Painting

3 hours. Introduces students to materials, methods, and techniques used in painting with acrylics or oils. Additional course fee is required. Prerequisite: ARTS 111 Drawing I, or instructor's permission.

ARTS 216 Art History Survey to 1450

3 hours. A survey of the elements and concepts of art theory and practice as reflected in culturally and historically significant painting, sculpture, architecture, and other art forms, from prehistoric times to 1450. Additional course fee is required.

ARTS 217 Art History Survey from 1450

3 hours. A survey of the elements and concepts of art theory and practice as reflected in culturally and historically significant painting, sculpture, architecture, and other art forms, from 1450 to the present. Additional course fee is required.

ARTS 220 Arts Administration I

3 hours. This course will introduce students to the practical skills required for the successful management of arts organizations. Areas covered will include budgeting, marketing/publicity, fundraising, and issues associated with the founding of a non-profit organization.

ARTS 221 Beginning Sculpture

3 hours. An introduction to investigating methods of additive, subtractive, assembled, and cast sculptural techniques. Students will use medias such as glass, plaster, clay, wood and stone, working with the traditional sculptural subject matter of the human figure, plant and animal imagery and abstraction. Additional course fee required.

ARTS 230 Beginning Photography

3 hours. Introduction to the materials, methods, and techniques used in photography. Additional course fee is required.

ARTS 231 Beginning Printmaking

3 hours. An introduction to screen printmaking, and relief printmaking (woodcut, linocut, collagraph) techniques and methods. Additional course fee is required.

ARTS 240 Beginning Mixed Media

3 hours. An inquiry of the essentials of combining a variety of art methods and materials, this class creates opportunities for students to integrate methods of kiln worked glass, assemblage, painting, photography, printmaking, mosaic, and sculptural techniques. Conceptually the student is challenged to have their artwork develop out of ideas gleaned from literature, science, their personal narrative, and current events. Additional course fee required.

ARTS 241 Beginning Ceramics

3 hours. Introduction to basic hand-building techniques and surface design. Additional course fee is required.

ARTS 245 Selected Studio Media

3 hours. A lecture/studio course that deals with an area of interest and faculty specialty, such as watercolor, kiln-worked glass, jewelry, encaustic painting, and bookmaking. The lower-division class is required of the student in the given topic before they can take a more advanced course. The student under a different topic may repeat this course. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 275 Field Experience

1-3 hours. Field Experience provides on-site work experience at an approved business or institutional site. Pass/No Pass.

ARTS 276 Arts Administration Practicum

3 hours. This course brings sophomore or junior level students into an internship experience with George Fox University exhibition and collection resources. Students will complete work in the academic semester related to museum studies, exhibition design and management and collection registration and care. Prerequisite: junior status or instructor approval.

ARTS 285 Selected Topics

1-3 hours. A lecture/studio class that deals with areas of interest and specialty in studio and graphic arts. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ARTS 301 Intermediate Painting

3 hours. A further development of the students' knowledge and use of the materials, methods, and techniques used in painting with acrylics or oils. Additional course fee is required. Prerequisite: ARTS 201 Beginning Painting.

ARTS 305 Art & Design Professional Networking Seminar

1 hour. This seminar course will meet weekly to focus on theory, concepts and methodology of art historical study and their application by engaging students in

discourse surrounding lectures of visiting professional artists. Investigations of film and writing will be a secondary approach to this course. Must be taken minimum 5 out of 8 semesters in students' program. Satisfies: core major requirement. Additional course fee required.

ARTS 310 Watercolor I

3 hours. A studio course involving theory and practice combined with creative and technical exploration in watercolor. This course explores creative and technical aspects of drawing and painting in watercolor. The course goal is to paint multiple short and long-term watercolors to create a diverse and broad portfolio in a short time, resulting in a high quality outcome. Students will also explore significant historical watercolor artists and experiment with some of their styles to gain insight and technical knowledge. Additional course fee is required. Prerequisite: ARTS 111 Drawing I, or instructor's permission.

ARTS 311 Figure Drawing I

3 hours. Practice and Theory pertaining to drawing the human figure from live models. Translating the 3 dimensional figure to 2 dimensions will be the first priority, along with exploration and study in historical and contemporary figural interpretations. Both traditional and non-traditional mediums will be explored with the intent of gaining competence and confidence in the use of figural subject content in a variety of mediums. Additional course fee is required. Prerequisite: ARTS 111 Drawing I, or instructor's permission.

ARTS 320 Arts Administration II

3 hours. Focusing on a variety of curatorial problems and strategies, this seminar addresses the range of methods that encompass the practice of curating and the conceptual perspectives that have shaped Collection and acquisitions of art objects. Arts Administration II emphasizes museum contexts, but also includes a review of alternative spaces, commercial galleries, and auction houses. Topics include the changing role of the museum, exhibition planning, crisis management, audience development, collections management, and strategic planning.

ARTS 321 Intermediate Sculpture

3 hours. This course continues exploration of sculptural techniques, including specific projects working with casting methods using glass, plaster, plastic, clay, and wax. Students are also at liberty to work in developing a deeper understanding of working in media such as metal, stone, wood and clay while cultivating a conceptual framework for their artwork. Additional course fee required. Prerequisite: ARTS 221 Beginning Sculpture.

ARTS 330 Intermediate Photography

3 hours. Provides an opportunity for further development of skills and for the introduction of more advanced techniques. Additional course fee is required. Prerequisite: ARTS 230 Beginning Photography.

ARTS 331 Intermediate Printmaking

3 hours. A further development of the students' knowledge and use of printmaking (silkscreen, woodcut, linocut, collagraph) and a further introduction to intaglio and etching techniques and methods. Additional course fee is required. Prerequisite: ARTS 231 Beginning Printmaking.

ARTS 340 Intermediate Mixed Media

3 hours. A further broadening of the student's knowledge and ability to combine methods of painting, sculpture, fiber arts, photography and other media. Students are encouraged to learn from contemporary artist's methods and techniques while building upon a variety of ideas and concepts. Additional course fee required. Prerequisite: ARTS 240 Beginning Mixed Media

ARTS 341 Intermediate Ceramics

3 hours. A further development of the students' knowledge and skill in throwing, hand building, and firing techniques in ceramics. Additional course fee is required. Prerequisite: ARTS 241 Beginning Ceramics.

ARTS 345 Selected Studio Media

3 hours. A lecture/studio course that deals with an area of interest and faculty specialty, such as watercolor, kiln-worked glass, jewelry, encaustic painting, and bookmaking. The lower-division class is required of the student in the given topic before they can take a more advanced course. The student under a different topic may repeat this course. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 355 Topics in Art History

3 hours. An in-depth study of a specific era or group found within Western art, such as studies in the Baroque and Rococo, Renaissance, or Women in Art. Specific topics will be dependent on the instructor's area of specialization. Additional course fee is required.

ARTS 382 Twentieth-Century Art

3 hours. Art and its relationship to Western culture of the 20th century. Additional course fee is required.

ARTS 384 Contemporary Art Forms

3 hours. This course examines and participates in the forms and methods of art in the 21st Century. Emphasis is placed upon investigating post-modern art theory while looking at current artists of note. The genres of video, installation, conceptual, digital and performance art are explored. In addition, students create their own work of digital media and conceptual art in the progression of the class. Additional course fee required.

ARTS 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ARTS 401 Advanced Painting

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required. Prerequisite: ARTS 301 Intermediate Painting.

ARTS 410 Watercolor II

3 hours. Continued study in watercolor theory and practice with more emphasis on creative exploration. Students are given more freedom in subject and technical direction as they demonstrate competence in basic skills. Course includes study of and mastery of contemporary and historic techniques and the exploration of one's own stylistic direction in watercolor. Additional course fee is required. Prerequisite: ARTS 310 Watercolor I, or instructor's permission.

ARTS 411 Figure Drawing II

3 hours. Upper division students will be given more latitude in the creative application of the concepts stated in Figure Drawing I. Additional course fee is required. Prerequisite: ARTS 311 Figure Drawing I or instructor's permission.

ARTS 421 Advanced Sculpture

3 hours. This course pursues rigorous development in one's sculptural methods. Students focus on a particular three-dimensional media while clarifying their conceptual framework with further research over the semester, creating a cohesive body of sculptural works. Additional course fee required. Prerequisite: ARTS 321 Intermediate Sculpture.

ARTS 430 Advanced Photography

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required. Prerequisite: ARTS 330 Intermediate Photography.

ARTS 431 Advanced Printmaking

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required. Prerequisite: ARTS 331 Intermediate Printmaking.

ARTS 440 Advanced Mixed Media

3 hours. This course pursues focused creation of a body of mixed media work as the culmination of this course. Working in combined media of their choice, the student is challenged to create a series of pieces applying professional levels of artistry and technique. Methodical research of artists, media, and concept is required. Additional course fee required. Prerequisite: ARTS 340 Intermediate Mixed Media.

ARTS 441 Advanced Ceramics

3 hours. Focuses on the individual artistic development of students as they combine techniques and subject matter into a personal style of visual communication. Additional course fee is required. Prerequisite: ARTS 341 Intermediate Ceramics.

ARTS 445 Selected Studio Media

3 hours. A lecture/studio course that deals with an area of interest and faculty specialty, such as watercolor, kiln-worked glass, jewelry, encaustic painting, and bookmaking. The lower-division class is required of the student in the given topic before they can take a more advanced course. The student under a different topic may repeat this course. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 455 Portfolio Development

3 hours. This course is designed to assist students in the preparation, production and presentation of their culminating portfolio of work relative to each sub-discipline within the Arts. Class will focus on assessment of needs, corresponding design, and execution of projects for final portfolios. Activities will center on practice of conceptual design, design development, production/fabrication, coordination, critique and presentation. Additional Course Fee Required. Prerequisite: Junior Standing.

ARTS 460 Art And Christ

3 hours. A study of the relationship between art and Christianity in the contemporary world. Designed primarily for studio art majors. Prerequisite: either ARTS 382 Twentieth Century Art or ARTS 384 Contemporary Art Forms. Additional course fee required.

ARTS 465 Continuing Studies in Studio Media

1-3 hours. Guided study in studio media such as ceramics, sculpture, painting, glasswork, printmaking, photography, etc., focused on professional practice, in-depth media exploration, development of individual voice, and exploration of historical and contemporary exemplars. Additional course fee required. Student may need to purchase additional supplies. Pre-requisites: completion of advanced course in corresponding discipline and instructor's permission.

ARTS 475 Field Experience

3 hours. Field Experience provides on-site work experience at an approved business or institutional site. Pass/No Pass.

ARTS 485 Selected Topics

1-3 hours. A lecture/studio class that deals with areas of interest in art, such as watercolors, calligraphy, or special topics in art history. Student may need to purchase additional supplies. Additional course fee is required.

ARTS 491 Senior Thesis I

3 hours. In this course, students identify, research, and begin creating a body of work and written thesis in their studio area of interest. Emphasis is placed on strong technical and formal articulation in support of a compelling, developing thesis concept. Professional practices for the emergent studio practitioner will be examined and executed. Participation in the Professional Networking visiting practitioner program through studio visits and lectures is a key component of this course. Prerequisite: art major with senior status, or by permission.

ARTS 492 Senior Thesis II

3 hours. The Senior Thesis II course represents the culmination of four years of study. Each student is expected to create a focused and in-depth body of studio work, which is developed through research and critical feedback with instructors and visiting practitioners. In recognition of the transition from student to artist this process represents, student will be working largely in a self-directed manner, in consultation with the Thesis Faculty. This work should reflect mature and independent decisions made regarding content and means of expression. Students work in their individual studio spaces. Additional course fee is required. Prerequisite: art major with senior status, or by permission.

ARTS 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

BIBL

BIBL 100 Bible Survey

3 hours. This course provides an overview of the history, literature, and themes of the Christian Bible. Bible Survey is a requirement of all undergraduate students at George Fox University, including transfer students, and serves as a prerequisite to RELI 300 as well as most BIBL and RELI electives. Alternatively, students may opt to take the two-semester, 6-credit sequence of BIBL 101 and BIBL 102; this option or its equivalent (BIBL 100 + either BIBL 101 or 102) is required for Biblical Studies majors, and strongly recommended for majors in Christian Ministries or Philosophy.

BIBL 101 Literature of Old Testament

3 hours. Using selected books and portions, the Old Testament will be studied with attention given to historic contexts, major religious themes, and literary forms of the Bible.

BIBL 102 Literature of New Testament

3 hours. Using selected books and portions, the New Testament will be studied with attention given to historic contexts, major religious themes, and literary forms of the Bible.

BIBL 103 Introduction to Biblical Knowledge

3 hours. A course required of students who need cultural preparation for BIBL 100 Bible Survey or BIBL 101 & 102 Literature of the Old & New Testament. Basic concepts of inductive Bible reading are taught and used, with the result that students learn fundamental Bible knowledge, including biblical content, geography, history, and theology. Instruction is delivered in English and Mandarin Chinese. Intended for non-native-English-speaking students in their first semester outside the English Language Institute (ELI) and for non-native-English-speaking students who directly enter the regular GFU program. Prerequisite: Successful completion of the ELI or instructor's permission.

BIBL 215 Biblical Studies

3 hours. In this course students will be introduced to basic tools and scholarly attitudes for studying the Bible, using a particular biblical book or set of related books as a focus. Material will be studied not only for academic knowledge but also spiritual and personal growth. Prerequisite: BIBL 100 Bible Survey, BIBL 101 Literature of Old Testament, or BIBL 102 Literature of New Testament

BIBL 240 Wisdom Literature

3 hours. The wisdom literature of the Old Testament is investigated historically, literarily, and theologically. The origin and development of the biblical wisdom traditions in the books of Proverbs, Job, and Ecclesiastes are considered in the context of the broader, international wisdom of the ancient Near East and the intertestamental literature. Taking BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament first is recommended.

BIBL 250 The Psalms

3 hours. An exploration of the Psalms with special attention to their forms, themes, and original cultural settings as well as how the Psalms have been preserved and applied in the community of faith. Students will also consider approaches to interpreting and learning from the Psalms today. Taking BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament first is recommended.

BIBL 260 Life of Christ

3 hours. The Synoptic Gospels - Matthew, Mark, and Luke - form the foundation for this inquiry into the life and teaching of Jesus Christ. Taking BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament first is recommended.

BIBL 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

BIBL 290 Biblical Interpretation

3 hours. This course is part of the Biblical Studies curriculum and is planned to help the student understand and apply sound principles of Biblical interpretation. We will study the history of interpretation, general hermeneutical principles, specific hermeneutical lenses, and how to apply them to different kinds of Biblical literature. Prerequisite: BIBL 100 Bible Survey, BIBL 101 Literature of the Old Testament, or BIBL 102 Literature of the New Testament, or by permission.

BIBL 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

BIBL 310 Old Testament History

3 hours. The history of ancient Israel is studied employing the text of the Old Testament narratives in Genesis through Esther, the evidence of archaeology, and other ancient Near Eastern texts. Theological messages and developments will be explored. Prerequisite: BIBL 290 Biblical Interpretation.

BIBL 315 Contemporary Issues in Biblical Studies

3 hours. Biblical Studies is a vibrant and dynamic academic field, with profound implications not only for communities of faith but also for the study of politics, literary studies, philosophy, history, and popular culture. This course will focus on contemporary issues relevant to the research interests and specialties of George Fox University Biblical Studies faculty and will offer an opportunity for students and faculty to collaborate in the dual process of research and personal transformation. Prerequisite: BIBL 100 Bible Survey or BIBL 101 Literature of Old Testament

BIBL 330 The Prophetic Writings

4 hours. This course studies the origin and historical development of ancient Israelite prophecy and its culmination in the canonical books of the prophets. The historical and social setting of the prophets will be considered, along with the spiritual themes that dominate and characterize them. Prerequisite: BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament.

BIBL 350 Writings of John

3 hours. This course explores what it means to believe in Jesus Christ, the Son of God, as depicted in the Johannine Gospel and Epistles. Special attention will be given to John's Christology, sociological setting, and message as they relate to the lives of modern readers. Taking BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament first is recommended.

BIBL 360 Women and the Bible

3 hours. This course will examine biblical texts often ignored. Paying attention to women characters, feminine imagery, and household codes, this course will examine the

historical, theological, literary, and practical issues concerning gender in the Christian tradition.

BIBL 385 Selected Topics

3 hours. The study of a book or portion of the Bible or a major biblical theme with the purpose of gaining deeper understanding of the biblical topic and of growing in the skills of studying and interpreting the Bible. Topics will vary according to the professor's expertise and research interests as well as the perceived needs of students' educational experiences. May be repeated for different topics. Prerequisites: BIBL 100 Bible Survey or BIBL 101 Literature of the Old Testament and BIBL 102 Literature of the New Testament or by permission.

BIBL 390 Biblical Basis for Peacemaking

3 hours. Focusing centrally on Jesus' teachings about peacemaking, this course deals with the biblical treatment of peacemaking, including the prophetic and apocalyptic visions of the kingdom, and the interpretations of these teachings by the early church. Attention also will be given to what it means to work for peace in today's world, as co-laborers with Christ. Prerequisite: BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament.

BIBL 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

BIBL 411 Acts and the Pauline Epistles I

3 hours. An extensive study of the mission and teachings of the New Testament church, as shown in the Acts and the Epistles attributed to Paul. Special attention will be given to ways early Christians dealt with struggles between Jewish and Gentile Christianity, and applications will be made for the church today. The fall semester studies Acts 1-15, Galatians, and Romans. Prerequisite: BIBL 290 Biblical Interpretation.

BIBL 412 Acts and the Pauline Epistles II

3 hours. An extensive study of the mission and teachings of the New Testament church, as shown in the Acts and the Epistles attributed to Paul. Special attention will be given to ways early Christians dealt with struggles between Jewish and Gentile Christianity, and applications will be made for the church today. The spring semester studies Acts 15-28 plus the other Epistles of Paul. Prerequisite: BIBL 411 Acts and the Pauline Epistles I.

BIBL 475 Field Experience

1-9 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission. Pass/No Pass.

BIBL 480 General Epistles

3 hours. As a study of the non-Pauline letters of the New Testament - Hebrews, James, I and II Peter, and Jude - this course explores the character of Jewish Christianity and its implications for the broader church. Prerequisite: BIBL 100 Bible Survey or BIBL 102 Literature of the New Testament.

BIBL 485 Selected Topics

2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

BIBL 490 Biblical Theology

3 hours. This course is a senior level capstone study for Bible majors and minors. Having gained reasonable command of biblical content, students study the connecting theological themes that make the Bible a unified revelation of God. History of biblical theology, critical issues, and questions of contemporary theology are addressed. Prerequisite: BIBL 290 Biblical Interpretation and at least two upper-division BIBL courses.

BIBL 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

BIOL

BIOL 100 Foundations of Biology

4 hours. A course to fulfill the general education requirement. Deals with the organization of living things, anatomy and physiology of cells and organisms, reproduction and heredity, and the role of energy in the ecosystem. Bioethical considerations are discussed. Two lectures and one two-hour laboratory per week. Additional course fee is required.

BIOL 120 Environmental Science

4 hours. This course addresses the scientific concepts, practices, and motivations underlying natural resource availability and human resource use and management. Content will be delivered through lectures, activities, discussions and research projects and will emphasize an ecological understanding of resource cycling and human-environmental interactions, highlighting the mechanisms underlying current environmental problems and the role of Christian communities in addressing these problems. Three lectures and one laboratory per week.

BIOL 211 General Biology I

4 hours. An introduction to life science for those majoring in biology and bioscience-related fields. Topics include cellular biology, genetics, systematics, development, ecology, and anatomy and physiology of plants and animals. Three lectures and one two-hour laboratory per week. Additional course fee is required.

BIOL 212 General Biology II

4 hours. An introduction to life science for those majoring in biology and bioscience-related fields. Topics include cellular biology, genetics, systematics, development, ecology, and anatomy and physiology of plants and animals. Three lectures and one three-hour laboratory per week. Additional course fee is required.

BIOL 220 Fundamentals of Cellular and Organismal Biology

2 hours. This course is a supplementary course to BIOL 221, 222 that provides necessary foundational training in cellular biology, genetics, plant/animal diversity, and ecology needed for certain upper-division biology courses.

BIOL 221 Human Anatomy and Physiology I

4 hours. Structure and function of the human body. Fall semester topics include basic chemistry, body organization, integument, skeleton, muscles, and the nervous system, including special senses. The course is designed for nonscience majors. Three lectures and one laboratory per week. Additional course fee is required.

BIOL 222 Human Anatomy and Physiology II

4 hours. Structure and function of the human body. Spring semester topics include cardiovascular, reproductive, endocrine, respiratory, urinary, and digestive systems. The course is designed for nonscience majors. Three lectures and one laboratory per week. Prerequisite: BIOL 221 Human Anatomy and Physiology I, or permission from instructor. Additional course fee is required.

BIOL 275 Field Experience

1-6 hours. Includes internships and practica required for professional programs. The experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: permission of the instructor and chairperson of the department. Pass/No Pass.

BIOL 285 Selected Topics

1 hour. Offered when special needs arise or when sufficient enrollment permits. Course content includes specific interests of faculty or visiting professors, or special training required by graduate or professional schools. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy and Physiology I and BIOL 222 Human Anatomy and Physiology II and instructor's permission.

BIOL 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

BIOL 300 Evolution

2 hours. A study of mechanisms involved in natural selection and assumptions required. Topics include history of the theory, geochronology, molecular biology, developmental biology, paleontology, comparative physiology, biochemistry, and biogeography. The interface of evolution and Christianity are examined. Two lectures per week. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 310 Developmental Biology

4 hours. Theories and study of differentiation as they apply to growth and development of animals, with some emphasis on the mechanism involved. Includes historical topics, fertilization, embryonic organization, cell induction, histogenesis, organogenesis, and developmental morphogenesis of echinoderms, frogs, chicks, and pigs. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy & Physiology I and BIOL 222 Human Anatomy & Physiology II.

BIOL 322 Comparative Vertebrate Anatomy

4 hours. The comparative study of the structure and functional morphology of organisms in the phylum Chordata. Laboratory will emphasize dissection of representative vertebrate animals. Three one-hour lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy & Physiology I and BIOL 222 Human Anatomy & Physiology II.

BIOL 333 Advanced Physiology

4 hours. Investigation of physiological principles in animals, with 4 hours. A majors-level course is intended to meet the physiology requirement of graduate/professional programs in health-care fields. Investigation of physiological principles in humans/mammals, with emphasis on mechanisms of integration and homeostasis at cellular, organ, and system levels. Topics include muscular, neural, vascular, excretory, and endocrine interactions. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy & Physiology I and BIOL 222 Human Anatomy & Physiology II.

BIOL 335 Neuroscience

4 hours. An introductory course that provides a basic understanding in the multidisciplinary field of Neuroscience. Major topics covered in this course include neural signaling, neurophysiology, sensation and sensory processing, physical and functional neuroanatomy, movement and its central control, nervous system organization, brain development, complex brain functions and diseases of the nervous system. The course will examine different model organisms that have advanced the

field of neuroscience. Three lectures and one laboratory per week. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy & Physiology I and BIOL 222 Human Anatomy & Physiology II.

BIOL 340 Plant Physiology

4 hours. A study of plant function from the molecular to the organismic level. Photosynthesis, respiration, water relations, growth and development, mineral nutrition, and practical applications will be covered. Three lectures and one three-hour laboratory period per week. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 350 Genetics

4 hours. A general genetics course covering Mendelian genetics, population genetics, and an introduction to molecular biology. This course fulfills the requirement for biology majors, and is appropriate for those with an interest in current topics in genetics, including inheritable diseases, cloning, and other recent scientific breakthroughs. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy & Physiology I and BIOL 222 Human Anatomy & Physiology II.

BIOL 360 Ecology

4 hours. An analysis of population, community, and ecosystem dynamics. Laboratory will emphasize field measurements, computer modeling, and behavior. Three lectures and one three-hour laboratory per week, and one required field trip to the Malheur Field Station. Additional course fee required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 367 Essentials of Microbiology

4 hours. A course in the structure, metabolism, classification and health aspects of microorganisms. Special emphasis will be given to human-microbe interactions and clinical aspects of infection. Methods of microbiological investigation are emphasized and include current techniques and experiences within the field of Microbiology. Course designed for students not majoring in biology. Pre-requisites: BIOL 221 Human Anatomy and Physiology I; BIOL 222 Human Anatomy and Physiology II; CHEM 151 General, Organic, and Biological Chemistry I; and CHEM 152 General, Organic, and Biological Chemistry II; or permission of the instructor. Additional course fee required.

BIOL 370 Microbiology

4 hours. A course for biology majors in the structure, metabolism, classification and health aspects of microorganisms. Special emphasis will be given to microbial diversity, the molecular physiology and genetics of prokaryotes, and the human immune response to infection. Methods of microbiological investigation are emphasized and include current techniques and experiences within the field of Microbiology. Additional course fee required. Pre-requisites: BIOL 211 General Biology I and BIOL 212 General Biology II or permission of the instructor.

BIOL 380 Ornithology

4 hours. A study of avian biology including phylogeny, evolution, anatomy, physiology, behavior, and ecology. Laboratory will emphasize identification, bird banding, and basic anatomy. Two lectures and one three-hour laboratory per week, and one required field trip to the Malheur Field Station. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 390 Plant Biology

4 hours. This course integrates the disciplines of plant diversity, plant physiology, plant systematics and plant ecology by surveying the structure and function of plants from the organismal to the ecosystem levels. Students will receive a comprehensive survey of concepts in plant biology with an emphasis on mechanisms of development and growth, ecophysiology, identification and classification, and current global issues that are rooted in plant biology. Two lectures and one laboratory per week. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II

BIOL 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

BIOL 410 Molecular Biology

4 hours. An introduction to the modern field of molecular biology. We will examine the structure, organization, and transfer of genetic information at the molecular level and its requirement for life processes. Viral, prokaryotic, and eukaryotic systems will be examined. Major themes include transcriptional regulation, post-transcriptional events (RNA processing), and regulation of translation. The laboratory is designed to include current techniques and experiences within the field of molecular biology. Additional course fee is required. Prerequisites: BIOL 350 Genetics and CHEM 331 Organic Chemistry I.

BIOL 420 Cell Biology

4 hours. This course includes the study of cell physiology, energetics, neurobiology, muscle biology, and cell signaling. Other topics that will be discussed are cancer and immunology at the cellular level. Laboratory will focus on current cell culturing and analysis techniques. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy & Physiology I and BIOL 222 Human Anatomy & Physiology II, and CHEM 331 Organic Chemistry I. Recommended: CHEM 341 Biochemistry I.

BIOL 450 Advanced Human Anatomy

4 hours. A majors-level course intended to meet the anatomy requirement of graduate/professional programs in health-care fields. A course presenting a systemic approach to the study of the human body. Lecture presentations begin with an introduction of anatomical terminology, tissue classification, and developmental origins to systems. Body structure will be studied by organ systems and will include histology. Laboratory work will follow a regional gross anatomy of the human body through cadaver dissection, human skeletal collections and preserved specimens. Additional course fee is required. Prerequisites: BIOL 211 General Biology I, BIOL 212 General Biology II and BIOL 333 Advanced Physiology; or BIOL 221 Human Anatomy & Physiology I, BIOL 222 Human Anatomy & Physiology II and BIOL 333 Advanced Physiology, or instructor's permission.

BIOL 460 Invertebrate Zoology

4 hours. Comparative phylogeny, morphology, ecology, and life histories of several invertebrate groups and protozoa. Three lectures and one three-hour laboratory

per week. Some weekend field trips required. Additional course fee is required.
Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II.

BIOL 465 Biological Research

1-4 hours. Specific instructional programs, laboratory or field research, or independent study as planned under an advisor. A total of not more than 4 hours may be applied toward the major. Prerequisites: upper-division biology majors and by permission.

BIOL 475 Field Experience

1-6 hours. Includes internships and practica required for professional programs. The experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: permission of the instructor and chairperson of the department. Pass/No Pass.

BIOL 485 Selected Topics

1-4 hours. Offered when special needs arise or when sufficient enrollment permits. Course content includes specific interests of faculty or visiting professors, or special training required by graduate or professional schools. Prerequisites: BIOL 211 General Biology I and BIOL 212 General Biology II or BIOL 221 Human Anatomy and Physiology I and BIOL 222 Human Anatomy and Physiology II and instructor's permission. Additional course fee required.

BIOL 490 Biological Exploration

2 hours. Discussion- and experience-based course covering scientific analysis, communication, and research. Prerequisite: biology majors with junior status or by permission.

BIOL 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

BIOL 496 Senior Thesis

1 hour. An independent study course for completion of a senior thesis. Required for all thesis-track majors in their senior year.

BUSN

BUSN 110 Introduction to Business

3 hours. This introductory survey will examine the major functional areas of business and afford the student an opportunity to consider this major as a path to a career. Emphasis is given to contemporary business concepts, in particular, and examination of business as a field for stewardship.

BUSN 120 Personal Finance

3 hours. A practical application of personal financial management and an introduction to the field of financial planning. Topics include money history, stewardship, budgets, loans, spending, housing, insurance, investments, and retirement. Prerequisite: Business and economics majors only.

BUSN 240 Business Statistics

3 hours. Statistical procedures with applications in management and economics. Emphasis on the development of a basic knowledge of the statistical tools available for analysis of problems and decision making. Prerequisites: MATH 180 College Algebra or higher math course, or an SAT math score of 620 or higher or an ACT score of 28 or higher.

BUSN 275 Field Experience

1-3 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies. Pass/No Pass.

BUSN 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

BUSN 290 Business Ethics

3 hours. This course is designed to prepare students to meet the ethical challenges facing employees in modern business and nonprofit organizations. The course will address moral issues at every organizational level - personal, interpersonal, group, and system wide. Topics will include identifying personal mission and values; developing character; faith in the workplace; ethical perspectives, moral reasoning, and decision-making formats; ethical organizational communication and influence; ethical group behavior and leadership; and the creation of ethical organizational climates. Prerequisite or Co-requisite of BUSN 110.

BUSN 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

BUSN 303 Planning Your Financial Future

3 hours. This course is designed to prepare students to think critically about their relationship with money, develop their own personal financial philosophy and implement practical application of personal financial management. Topics include relationship with money, biblical financial foundations, budgets, loans, spending, housing, insurance, investments and taxes. Prerequisite: Non-business majors only.

BUSN 360 Business Law

3 hours. Covers the legal aspects of common business transactions. Includes the law of contracts, agency, negotiable instruments, and other phases of private law.

BUSN 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

BUSN 475 Field Experience

1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies. Pass/No Pass.

BUSN 485 Selected Topics

1-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

BUSN 486 Strategic Management

3 hours. The study of administrative policy and strategy in organizations. Emphasis is placed on the integration and inter-relationships of functional business areas (accounting, economics, finance, marketing, and management) for the purpose of developing an organizational-wide perspective. Students learn a model of strategy formulation and implementation and, through analyzing cases, apply this model to a variety of institutional settings. Prerequisites: MGMT 260 Principles of Management, MKTG 260 Principles of Marketing, FINC 260 Business Finance, ACCT 272 Principles of Managerial Accounting, and senior standing.

BUSN 493 Senior Capstone - Strategy, Planning and Implementation

3 hours. Students will integrate key principles of strategic thinking and management as they relate to the world of business. The course is interactive in nature, and students will incorporate many components of marketing, accounting, finance, economics and management. In this course student teams will actually develop a business model, including a financial, marketing and economic plan. Prerequisites: ACCT 272 Principles of Managerial Accounting, FINC 260 Business Finance, MGMT 260 Principles of Management, MKTG 260 Principles of Marketing and senior standing.

BUSN 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

CHEM

CHEM 120 Foundations of Chemistry

4 hours. This course will cover introductory concepts of chemistry. Special attention is given to topics of current interest, such as environmental chemistry, alternative energy, or biochemistry. This course meets general education requirements and is designed for non-science majors. Three lectures and one laboratory period per week. Additional course fee is required.

CHEM 151 General, Organic, and Biochemistry

4 hours. This course covers introductory and intermediate principles of chemistry. Special emphasis is placed on those aspects of general and organic chemistry that are pertinent to biochemistry. This course provides a background for students with interests in prenursing, nutrition, and related allied health areas. (This course does not meet the requirements for science majors.) Three lectures and one two-hour laboratory per week. Additional course fee is required. Prerequisite: A math SAT score of at least 440 (test taken prior to March 2016), or a math SAT score of at least 480 (test taken March 2016 or later) or successful completion of MATH 180 College Algebra (or equivalent).

CHEM 152 General, Organic, and Biochemistry

4 hours. This course covers introductory and intermediate principles of chemistry. Special emphasis is placed on those aspects of general and organic chemistry that are pertinent to biochemistry. This course provides a background for students with interests in prenursing, nutrition, and related allied health areas. (This course does not meet the requirements for science majors.) Three lectures and one two-hour laboratory per week. Additional course fee is required. Prerequisite: CHEM 151 General, Organic, and Biological Chemistry I.

CHEM 211 General Chemistry I

4 hours. This course covers fundamental chemical principles, reactions, and mode theories. Special emphasis is given to the role of chemistry in everyday life. Three lectures and one laboratory period per week. Additional course fee is required. Prerequisite: A math SAT score of at least 500 (test taken prior to March 2016) or a math SAT score of at least 530 (test taken March 2016 or later), or successful completion of MATH 190 Precalculus Mathematics (or equivalent).

CHEM 212 General Chemistry II

4 hours. This course covers fundamental chemical principles, reactions, and mode theories. Special emphasis is given to the role of chemistry in everyday life. Three lectures and one laboratory period per week. Additional course fee is required. Prerequisite: CHEM 211 General Chemistry I.

CHEM 275 Field Experience

1-3 hours. Supervised experience with an off-campus industry or agency using applied chemistry. Prerequisite: instructor's permission. Pass/No Pass.

CHEM 285 Selected Topics

1 hour. Scheduled as a regular class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors. Prerequisite: upper-division status.

CHEM 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

CHEM 310 Analytical Chemistry

4 hours. An introduction to the principles and techniques of quantitative chemical analysis. Subject matter includes volumetric and complexometric analysis; neutralization, precipitation, and oxidation-reduction titrations; solubility; statistical methods of data analysis; UV/Vis and atomic absorption spectroscopy; fluorescence spectroscopy; and chromatographic methods. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: CHEM 211 General Chemistry I and CHEM 212 General Chemistry II.

CHEM 320 Advanced Inorganic Chemistry

3 hours. A survey of topics in inorganic chemistry, including atomic structure, chemical bonding, periodic trends of structure, physical properties and reactivities of the elements, group theory as applied to molecular structure, and nonmetal and transition metal chemistry. Three lectures per week. Prerequisites: CHEM 212 General Chemistry II.

CHEM 331 Organic Chemistry I

4 hours. A study of principles, structure, bonding, reactions, and energy as related to carbon chemistry. The laboratory stresses materials, equipment, and skills in synthesis, purification, and identification of representative groups of organic compounds. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: CHEM 211 General Chemistry I and CHEM 212 General Chemistry II.

CHEM 332 Organic Chemistry II

4 hours. A study of principles, structure, bonding, reactions, and energy as related to carbon chemistry. The laboratory stresses materials, equipment, and skills in synthesis, purification, and identification of representative groups of organic compounds. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: CHEM 331 Organic Chemistry I.

CHEM 341 Biochemistry I

4 hours. A systematic and theoretical study of the biochemical activities of living cells. Topics to be covered will include: the structure, properties, and molecular interactions of biomolecules, metabolic pathways, bioenergetics, and metabolism of biomolecules, and RNA, DNA, and protein synthesis. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: CHEM 331 Organic Chemistry I and CHEM 332 Organic Chemistry II.

CHEM 342 Biochemistry II

4 hours. A systematic and theoretical study of the biochemical activities of living cells. Topics to be covered will include: the structure, properties, and molecular interactions of biomolecules, metabolic pathways, bioenergetics, and metabolism of biomolecules, and RNA, DNA, and protein synthesis. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: CHEM 341 Biochemistry I.

CHEM 380 Advanced Organic Chemistry

3 hours. An advanced study of organic reactions and structures including, reaction mechanisms, linear free energy relationships, isotope effects, pericyclic reactions, spectroscopy, and molecular modeling. Three lectures per week. Prerequisites: CHEM 332 Organic Chemistry II.

CHEM 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CHEM 440 Thermodynamics

4 hours. An introduction to modern theoretical chemistry, emphasizing the fundamental physical principles of chemical thermodynamics and chemical kinetics. The study of thermodynamics will apply mathematical models of energy relationships to the understanding of chemical equilibrium. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: CHEM 332 Organic Chemistry; MATH 202 Calculus II; Corequisites: PHYS 202 General Physics II or PHYS 212 General Physics with Calculus II.

CHEM 450 Quantum Chemistry

3 hours. An introduction to the quantum mechanical description of matter. Emphasis on the development of fundamental principles of quantum theory and applications to atomic and molecular structure and spectroscopy. Three lectures per week. Prerequisites: CHEM 332 Organic Chemistry; MATH 202 Calculus II; Corequisites: PHYS 202 General Physics II or PHYS 212 General Physics with Calculus II; MATH 301 Calculus III

CHEM 461 Chemistry Seminar

1 hour. An advanced, senior-level course that will focus on reading and searching the chemical literature for the purpose of designing an independent research project. One lecture per week. Prerequisites: Instructor's permission.

CHEM 462 Experimental Chemistry

2 hours. An advanced, senior-level laboratory course integrating synthetic techniques, instrumental methods, reaction kinetics, thermodynamics, spectroscopy and an original research project. The purpose is to build on and consolidate the student's previous experiences in experiment design and execution, data acquisition and analysis, problem solution, and oral and written communication of results. Two laboratory sessions per week. Additional course fee is required. Prerequisites: CHEM 461.

CHEM 465 Chemical Research

1-4 hours. Experimental and/or theoretical research in a topic of the student's choosing, supervised by the chemistry faculty. Prerequisite: upper-division chemistry majors and by permission of individual faculty member.

CHEM 475 Field Experience

1-3 hours. Supervised experience with an off-campus industry or agency using applied chemistry. Prerequisite: instructor's permission. Pass/No Pass.

CHEM 485 Selected Topics

1-4 hours. Scheduled as a regular class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors. Prerequisite: upper-division status.

CHEM 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

CHMN

CHMN 120 Incarnational Youth Ministry

1 hour. A study of the theological and historical background for relational ministry with young people. Students will gain practical ministry skills that will be useful in ministering relationally with middle school and high school students. Students will also learn to communicate the gospel and their faith in a contextualized manner for an adolescent culture as well as a post-modern culture.

CHMN 130 Christian Discipling

3 hours. A study of biblical principles of evangelism, nurturing, and teaching. This study encompasses the Christian educational responsibilities of the local church and parachurch agencies.

CHMN 230 The Christian and the Outdoors

3 hours. An exploration of the biblical foundations for a variety of outdoor activities available to individuals, families, church groups, and Christian camps. Of significant importance is a consideration of the potential that outdoor experiences have for teaching and learning. Additional course fee is required.

CHMN 235 Walk-About

1 hour. A campus leadership training program that links outdoor education, experiential learning, and team building. It is a guided, intentional use of the backcountry to assist developing students into campus leaders who are intentional about their roles as spiritual, community, and academic models. Pass/No Pass. Prerequisite: current member of the residence life staff or the ASC Central Committee.

CHMN 240 Youth Ministry: Youth Culture

2 hours. A study of some of the major trends and issues confronting and shaping young people in American culture today. A premium is placed upon developing the tools to interact with these realities as Christians in ministry and to recognize ways in which youth culture both hinders and fosters opportunities for ministry to young people.

CHMN 241 Youth Ministry: Methods and Practice

2 hours. This course focuses upon the development of hands on skills for ministry. Public speaking, leading small groups, developing relationships with young people for ministry, and planning, organizing and executing group events are topics of focus throughout the course.

CHMN 275 Field Experience

1-5 hours. Supervised internship in areas of Christian ministry, with emphasis on application of methods learned. Prerequisite: upper-division students and by application. Pass/No Pass.

CHMN 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

CHMN 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required. Pass/No Pass.

CHMN 320 Relational Bible Teaching

3 hours. An analysis of the concept of Bible teaching in a small-group setting. Classroom practice in using the various methods as they relate to home Bible studies, camp settings, or the Sunday school.

CHMN 330 Youth Ministry: Theology and Philosophy of Ministry

2 hours. A study of motivation, guidance, and method in reference to youth and youth ministries, aimed at developing leadership skills.

CHMN 341 World Christianity: Theology and Practice

3 hours. This course examines the diversity of the global Christian Church through an exploration of key theological texts written by the foremost theologians from the continents of Africa, Asia, Latin America, and Europe.

CHMN 360 Perspectives in Christian Education

3 hours. A study of the historical background and philosophical development in Christian education, with an examination of the influence of these antecedents upon theory and practice. Contemporary trends in current and emerging ministries will be assessed against such perspectives.

CHMN 370 Camp Programming and Counseling

2 hours. A camping overview: its historical development and philosophy. Types of camps, program activities, teaching-learning models, leadership recruitment, and training - with special emphasis on methods of camp counseling -are covered. Overnight campout is required. Additional course fee is required. (Identical to HHPE 370.)

CHMN 381 Counseling

3 hours. A study of theory and technique of person-centered counseling. The course is designed to teach basic theoretical postulates and to focus on effective intervention skills for those anticipating future work in Christian ministries, teaching, or mental health settings. Recommended as a prerequisite for field experience work (PSYC 475). (Identical to CHMN 381.) Prerequisites: PSYC 150 General Psychology and sophomore status or above. Recommended: PSYC 330 Personality Theories.

CHMN 390 Theological Foundations of Christian Ministry

3 hours. A study of the relationships of theology to Christian ministry. This course explores the ways in which particular theologies affect the practice of ministry in the church.

CHMN 391 Theological Praxis I: Foundation of Self

3 hours. An exploration of an individual's call to ministry and a study of present praxis in Christian ministry, with emphasis on spiritual formation and community building. This is the first of four semesters. Additional course fee is required. Requires department approval. Prerequisite: sophomore standing or above.

CHMN 392 Theological Praxis II: Christian Community

3 hours. A study of the faith life of the Christian community, expressed through Scripture, traditions, theology and church history, as it relates to Christian theological praxis. This is the second of four semesters. Additional course fee is required. Prerequisite: CHMN 391 Theological Praxis I: Foundations of Self.

CHMN 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures.

(Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CHMN 420 Speaking as Ministry

3 hours. A practical course providing methods and introductory techniques for preparation and delivery of Christian speaking as ministry. A variety of message construction types will be studied, and students will have opportunity to speak and receive student and instructor evaluation. This course will cover sermon preparation and delivery, devotional and inspirational speaking, extemporaneous sharing, and broader aspects of communicating Christian truth.

CHMN 435 Walk-About

1 hour. A campus leadership training program that links outdoor education, experiential learning, and team building. It is a guided, intentional use of the backcountry to assist developing students into campus leaders who are intentional about their roles as spiritual, community, and academic models. Pass/No Pass. Prerequisite: current member of the residence life staff or the ASC Central Committee.

CHMN 440 Camp Administration

2 hours. Designed to develop a basic understanding of programming, business, and leadership at an administrative level. A weekend camping trip is required. Additional course fee is required. (Identical to HHPE 440.)

CHMN 441 Contemporary Issues of the Church

3 hours. This course addresses several pressing issues facing Christians in the West in the 21st Century. The course takes a historical look at how Christians have previously dealt with these issues, but also engages the possibility of new solutions. Topics include, but is not limited to the nature of scripture, the nature of truth, issues of sexuality and gender, social justice, evangelism, and the nature of the Gospel.

CHMN 475 Field Experience

1-5 hours. Supervised internship in areas of Christian ministry, with emphasis on application of methods learned. Prerequisite: upper-division students and by application. Pass/No Pass.

CHMN 485 Selected Topics

2 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

CHMN 491 Theological Praxis III: Study of Theology

3 hours. A study of various historical and multicultural theological approaches to God and ministry, with an emphasis on the role of context and community in applying theology in different vocational settings. This is the third of four semesters. Additional course fee is required. Prerequisite: CHMN 392 Theological Praxis II: Christian Community.

CHMN 492 Theological Praxis IV: Critical Issues

3 hours. A co-constructed approach to the application of practical theology to contemporary theological issues within the Christian community. Pulling together the themes in CHMN 391, 392, and 491, students in the course will work with the instructor to select topics for exploration together. This is the fourth of four semesters. Additional course fee required. Prerequisite: CHMN 491 Theological Praxis III: Study of Theology.

CHMN 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

CINE

CINE 160 History of U.S. Cinema

3 hours. An historical examination of the moving image, including television programming and film in the United States. Employs contextual and ethical methods for illuminating the relationship of these media artifacts to modern culture, both secular and religious.

CINE 210 Storyboarding and Concept Design

3 hours. This is the study of pre-production and previsualization techniques used in animation. Topics include developing story, storyboarding, concept design, and editing animatics. Additional course fee required. Prerequisite: ARTS 111, ARTD 210 or instructor's permission.

CINE 212 Introduction to Animation

3 hours. This is an introduction to the fundamentals of animation production, from traditional hand drawn techniques to stop motion animation. In this hands-on workshop, students will produce short animation projects. Additional course fee required.

CINE 214 2D Computer Animation

3 hours. This is an introduction to 2D computer animation using industry standard software and techniques. Students will create character animations and short animation projects. Additional course fee required. Prerequisite: ARTD 210 Creative Suite I, CINE 212 Introduction to Animation or instructor's permission.

CINE 220 History of International Cinema

3 hours. Film is a truly an international medium, stretching across borders, decades, and cultures. Students will study international films in terms of the historical, cultural, political, and economic forces that shaped them.

CINE 230 Introduction to Video Production

3 hours. An introduction to the language and the technical, creative, and aesthetic elements of the video production process. Course includes basic lighting, sound, camera operation, composition, and design of visual elements, producing, and directing through both classroom and supervised laboratory experiences.

CINE 233 Contemporary Christian Songwriting and Producing

3 hours. Working with professionals in the contemporary Christian music field, students will learn basic techniques of songwriting including lyrics and song structure. Students will write their own songs, which they will then produce and record. Prerequisite: CINE 243 Introduction to Audio or instructor's permission.

CINE 243 Introduction to Audio

3 hours. Concentrating on recording, editing, and mixing multitrack audio on a digital platform. The course will look at special recording techniques for (a) human voices in speaking, singing, and dramatic performance; (b) musical instruments; (c) dramatic sound effects. Students will complete projects in editing and mixing of multitrack sound programs.

CINE 260 Scriptwriting For Media

3 hours. An introduction to the styles, techniques, content, and forms of television writing. Both dramatic (sitcom and dramatic features) and nondramatic (news and informational) forms of writing are covered. The writing of several short scripts is

required in the course. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

CINE 275 Field Experience

2-10 hours. An internship experience designed to give students an opportunity to practice video and film techniques and principles in an off-campus, professional setting. Students choose from a variety of options - cable, broadcast, corporate, medical, or commercial production facilities - based on the student's goals and interests. Up to 3 hours may apply to the communication media major. Pass/No Pass. Prerequisite: instructor's permission.

CINE 280 Film Theory and Criticism

3 hours. An introduction to film as a narrative and visual medium, emphasizing the terms, methods and techniques of film analysis, as well as prominent critical theoretical approaches to understanding film.

CINE 285 Selected Topics

1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

CINE 310 Intermediate Directing

3 hours. Working with classmates as crew, students take turns directing scenes from Hollywood movies in this hands-on directing workshop. Beyond storyboarding and shot planning, this class focuses on working with actors, working with crew, and other skills required for balancing the technical and the artistic aspects of directing. Prerequisite: CINE 230 Introduction to Video Production or instructor's permission.

CINE 312 3D Computer Animation I

3 hours. This is an introduction to 3D computer animation using industry standard software and techniques. Emphasis is placed on modeling texturing, lighting and rendering. Students will create original 3D artwork. Additional course fee is required. Prerequisite: ARTD 210 Creative Suite I

CINE 320 Dramatic Scriptwriting

3 hours. An introduction to the art of writing for film. Dramatic structure is emphasized and plot scenarios, dialogue, and characterization are among several topics examined and exercised. Students create scripts for original features, short films, or plays. The writing experience is complemented through an examination of the business aspects of writing, including spec-scripts, agents, and the Hollywood system.

CINE 333 Camera and Lighting

3 hours. This course explores the various camera and lighting techniques used in film and digital video production. Students will focus on applying lighting techniques and camera movement to create specific visual effects. Students will apply the ideas discussed in the text and lectures to a series of in-class explorations, in addition to scenes filmed outside of class. Prerequisite: CINE 230 Introduction to Video Production or instructor's permission. Additional course fee required.

CINE 340 Media Law and Ethics

3 hours. Considers the rights and responsibilities of print and broadcast journalists, and explores media law and ethics in light of the First Amendment and legal philosophy. Prerequisite: JOUR 230 Introduction to Journalism

CINE 343 Sound Design

3 hours. This class explores the use of digital sound technology to record, edit, and mix audio for film and television. Students will use their audio skills to record sound both

in the field and in the recording studio. Prerequisite: CINE 243 Introduction to Audio or instructor's permission.

CINE 344 Studio Sound Recording

3 hours. Students will learn to record music and vocal tracks in a digital multitrack studio environment. Students will produce music, advertising, and other audio projects in this hands-on studio course. Prerequisite: CINE 243 Introduction to Audio or instructor's permission.

CINE 350 Editing Video

3 hours. Theory and practice in editing the moving image. Analysis of Hollywood and avant-garde styles of editing is followed by practice exercises illustrating each concept. Additional course fee required. Prerequisite: CINE 230 Introduction to Video Production or instructor's permission.

CINE 355 Event Video Production

3 hours. This course concentrates on live multicamera production of sporting, theatrical, and entertainment events. The course concentrates on producing and directing components, but also features setting up multicamera remote systems for video broadcast. May be repeated for a maximum of 6 hours total. Prerequisite: CINE 230 Introduction to Video Production or instructor's permission.

CINE 363 Motion Graphics and Visual Effects

3 hours. Students explore different means of producing visual effects using digital computer imaging, blue-screens, compositing, and old-fashioned movie magic. Students will also learn how to create animated text sequences and video graphics. Additional course fee required.

CINE 371 Documentary Production I

3 hours. The documentary filmmaker must juggle a multitude of skills while maintaining a relationship with their subject in an ethical manner. Students will explore the historical, critical, and ethical aspects of the documentary while studying the steps taken during preproduction. Prerequisite: CINE 230 Intro to Video Production.

CINE 372 Documentary Production II

3 hours. This course continues the documentary experience started in Documentary Production I. Students will apply their understanding of documentary filmmaking while exploring the aspects of production and post-production. Prerequisite: CINE 371 Documentary Production I.

CINE 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CINE 410 3D Computer Animation II

3 hours. This is an advanced course in 3D computer animation using industry standard software and techniques. Emphasis is placed on rigging and character animation. Students will create short animation projects. Additional course fee required. Prerequisite: CINE 212 Introduction to Animation and CINE 312 3D Computer Animation I

CINE 430 Producing and Directing Video

3 hours. An advanced course in video directing and producing. Students explore the preproduction, production, and postproduction of original short feature videos for the Fox Film Festival. Prerequisite: CINE 350 Editing Video. Additional course fee required.

CINE 474 Corporate Video Production

1 hour. Working with a client is an essential skill for the video professional. This course will prepare students to work collaboratively and creatively alongside a client while gaining hands-on experience.

CINE 475 Field Experience

1-10 hours. An internship experience designed to give students an opportunity to practice video and film techniques and principles in an off-campus, professional setting. Students choose from a variety of options - cable, broadcast, corporate, medical, or commercial production facilities - based on the student's goals and interests. Up to 6 hours may apply to the cinematic arts major. Pass/No Pass. Prerequisite: instructor's permission.

CINE 481 Advanced Production Workshop I

3 hours. In this intensive hands-on production course, students will draw on all their filmmaking skills to produce 10- to 30-minute shorts - narrative, documentary, or animated - for their portfolios and film festivals. This semester focuses on preproduction and production, including script breakdown, casting, and actual filming. Prerequisites: one of the following: CINE 310 Intermediate Directing, CINE 320 Dramatic Scriptwriting, CINE 333 Camera & Lighting, CINE 343 Sound Design, CINE 350 Editing Video, CINE 430 Producing & Directing Video, or instructor's permission. Admission to the class is a competitive process based on the student proposal and script. Additional course fee required.

CINE 482 Advanced Production Workshop II

3 hours. This course continues the project started in Advanced Production Workshop I into postproduction, including editing, sound design, color correction, and DVD authoring. Prerequisite: CINE 481 or instructor's permission.

CINE 485 Selected Topics

1 hour. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

CINE 490 Senior Portfolio

1 hour. This class helps prepare students for entry into the professional realm by developing networking and marketing strategies, and by preparing a professional reel of their best work, which will be critiqued by members of the local media industry. Prerequisite: senior status. Additional course fee required.

CINE 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

COMM

COMM 100 Introduction to Communication

3 hours. An introduction to the study of human communication. Application of communication principles to interpersonal, group, and public contexts. Particular emphasis on the practice of public speaking. Students will prepare and deliver several oral presentations.

COMM 200 Persuasive Communication

3 hours. A presentation of key principles of persuasion as they are reflected in typical organizational communication contexts. Focus on developing a planning sequence that will function as a practical guide for designing, executing, and evaluating communication events. Students will be expected to develop a "real world" communication event, e.g., publicity campaign, speech, newsletter. Prerequisite: COMM 100 Introduction to Communication or equivalent.

COMM 210 Interpersonal Communication

3 hours. Theoretical and reflective study and guided experience in dyadic and small-group communication, with attention given to interpersonal communication, listening behavior, nonverbal communication, and conflict resolution.

COMM 220 Intercultural Communication

3 hours. This covers communication as it affects and is affected by language and culture. Topics include contextualized use of communication within speech communities, intercultural effectiveness, cultural communication theory, competent intercultural experiences in co-cultures (ethnic, gender, intergenerational, deaf, etc.) and global cultural groups. A student may not earn credit for both the lower-division and upper-division versions of this course.

COMM 230 Mass Media and Popular Culture

3 hours. Survey of the historical development of newspapers, magazines, broadcast media, and cinema. Analysis of the role(s) of mass media in shaping and altering opinion and values in contemporary culture.

COMM 240 Introduction to Public Relations

3 hours. A course designed to introduce and develop a clear concept of public relations as a communication profession. Topics to be covered include the function of public relations in both public and private enterprises; the process of planning and implementing a public relations communication campaign; techniques for communicating with various publics; and the laws and ethics governing the practice of public relations. (Identical to JOUR 240/COMM 240)

COMM 260 Introduction to Communication Research Methods

3 hours. This course is an introduction to quantitative and qualitative research methods commonly used in the field of communication and in social science in general.

COMM 270 Introduction to Organizational Communication

3 hours. An examination of organizations from a communication vantage point. Combines study of theoretical perspectives with skill development. Students will build organizational communication competencies through understanding the nature of communication in the organizational context and by practicing effective communication skills. Possible topics include communication networks and climates, superior-subordinate relationships, computer-mediated communication, organizational

identification, communication audits, group and team communication, interviewing, meetings, and presentations.

COMM 275 Field Experience

1-10 hours. Experience in supervised field situations, either on or off campus, involving extensive and exploratory communication activity. Admission to course and amount of credit determined by the faculty supervisor. This course is offered each term. Up to 6 hours may count toward major requirements. Pass/No Pass.

COMM 285 Selected Topics

3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

COMM 290 Small Group Communication

3 hours. A course that examines and applies theories of small-group structures, climate, roles, leadership, motivation, and conflict management. Prerequisite: Comm 100 Introduction to Communication.

COMM 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

COMM 300 Communication Theory and Research

3 hours. A study of the major sources of communication theory (e.g., meaning theory, humanistic psychology, symbolic interactionism, relational theory, information processing) together with specific contemporary exemplifications of each approach. Special focus is on the nature and progress of scientific inquiry in communication theory. Prerequisite: 6 hours of communication arts or media communication courses, including COMM 100 Introduction to Communication.

COMM 305 Professional Communication or Scholarly Activities

1-3 hours. This course is structured to give students experience in real-world communication events, either on or off campus. Extensive research projects may also qualify for this course. This course is offered each term. It may be repeated for a maximum of 6 hours total. Pass/No Pass. Prerequisite: Communication Arts or Organizational Communication major, junior standing, completed 9 credits of COMM coursework.

COMM 310 Conflict Resolution

3 hours. A study of communication principles found useful in managing conflict productively. Focus is given to conflict occurring in institutional and organizational settings between individuals and groups. Attention also is given to conflict in social, national, and international settings. (Identical to PSCI 310.)

COMM 311 Social Media

3 hours. This course examines how social media intersects with existing psychological, communication, and marketing theories. In addition to providing a foundation in current terminology and trends, the course will also require students to develop critical thinking techniques in order to improve their media literacy. Students will analyze, evaluate, and prescribe communicative approaches in a variety of contemporary case studies, such as: crisis communication, public relations and branding, campaigns, citizen journalism, "big data," micromarketing, and social protest. Prerequisite: COMM 100 and Sophomore class standing.

COMM 315 Forensics

0-3 hours. This course prepares students to create competitive speeches and debates in regional intercollegiate tournaments. May be repeated for a maximum of 6 hours total. Additional course fee required.

COMM 321 Public Relations Case Studies and Campaigns

3 hours. This course gives students an opportunity to apply their existing coursework to variety of historical and hypothetical situations. Students will learn to work in teams to research, craft, and present an effective and ethical message in a short amount of time; to recognize and evaluate the various PR techniques used in historical cases; to demonstrate knowledge of how PR strategies interact with the changing face of modern journalism, marketing, and advertising; and how to construct a strategic campaign that would roll out across a variety of platforms over a set schedule. Prerequisites: COMM 320 Introduction to Public Relations and Junior standing or instructor permission.

COMM 324 Argumentation and Critical Thinking

3 hours. A course in practical reason. Includes a survey of theories of argumentation, analysis of public arguments, and several speeches, including a debate. Prerequisite: COMM 100 Introduction to Communication or instructor's permission.

COMM 340 General and Cultural Linguistics

3 hours. A study of the nature of verbal symbols as they function in communication. The course will include phonetic transcription, semantics, modern grammatical theories, history of the English language, and modern English dialects.

COMM 380 Advanced Organizational Communication

3 hours. This is an advanced study of organizational communication. Topics include, but are not limited to, organizational storytelling, communication technologies, career theory, power and resistance in organizations, and impression management. Students will be encouraged to recognize ways organizational communication can be improved through their everyday interactions. Prerequisite: COMM 270 or consent of instructor.

COMM 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

COMM 400 Critical Approaches to Communication

3 hours. Methods of rhetorical criticism as applied to public communication of the past and present, including but not limited to speeches, broadcasts, films, and campaigns. Analysis of current trends in rhetorical criticism. Prerequisite: junior standing or above.

COMM 410 Gender Comm Across Cultures

3 hours. A course designed to introduce students to the nature and function of gender differences in communication on a cross-cultural basis. Examines biological, cultural, linguistic, and power theories that attempt to explain these differences. Focus given to verbal (spoken and written) language as well as nonverbal communication codes. Counts toward globalization requirement.

COMM 420 Intercultural Communication

3 hours. This covers communication as it affects and is affected by language and culture. Topics include contextualized use of communication within speech communities, intercultural effectiveness, cultural communication theory, competent

intercultural experiences in co-cultures (ethnic, gender, intergenerational, deaf, etc.) and global cultural groups. A student may not earn credit for both the lower-division and upper-division versions of this course.

COMM 430 Advanced Research Methods & Data Visualization

3 hours. This course is an advanced study of research methods, data management, and data visualization. Topics covered in this course include, but are not limited to, advanced research methods, data cleaning and management, data visualization theory (e.g. perception, visual cognition), design, and data narratives and storytelling. Students will have opportunities to critique, replicate, and redesign current data visualizations, as well create original data visualizations that tell important stories to lay audiences. Prerequisites: COMM 260 Introduction to Communication Research Methods, equivalent course, or instructor permission; Junior standing.

COMM 465 TESOL Field Experience

1-3 hours. Supervised teaching experience in a school or community program for learners of English as a second language. Pass/No Pass. Prerequisite: COMM 350 Introduction to TESOL.

COMM 475 Field Experience

1-10 hours. This course is an experience in supervised field situations, the internship can be either on or off campus, involving extensive communication activity usually overseen by a professional or expert in their field. Admission to course and amount of credit are determined by the faculty supervisor. This course is offered each term. Up to 6 hours may count toward major requirements. Pass/No Pass. Prerequisite: Communication Arts or Organizational Communication major, junior standing, completed 9 credits in COMM coursework.

COMM 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication

3 hours. Designed to integrate skills and concepts from communication course work with ethical and spiritual principles through readings, written assignments, and assessment instruments. Students will complete portfolios that will include work samples and department exit exams along with a statement of what it means to be a Christian communicator. A service component may be included as part of the course.

COMM 485 Selected Topics

3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

COMM 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

CPAS

CPAS 100 Effective College Learner

1 hour. A course related to the Academic Success Program through which personal confidence is enhanced by instruction in study skills, methods, and tools used by successful college students. It may be taken during the spring semester by students not in the Academic Success Program. Pass/No Pass.

CPAS 105 Individual Academic Coaching

1 hour. Students meet weekly with a success coach for support and accountability. Success coaches help students navigate academic, personal, family, and work responsibilities. The course includes review of weekly schedules, semester planning, and a meeting with the student's CAP Coach and Faculty Advisor. Permission is required to enroll in the course. Pass/No Pass.

CPAS 111 Writing Portfolio Development

4 hours. This course is designed to help non-native speakers of English become proficient with college-level academic writing. Students must create and submit a passing writing portfolio, one component of the writing proficiency milestone.

CPAS 125 Academic English Development

1-3 hours. This course assists students in improving their academic English skills. Students concurrently enroll in a designated general education or disciplinary course, and the content, activities and assignments for that course provide the context for developing academic English skills including listening and reading comprehension, note taking, writing, vocabulary, speech and study skills. Prerequisite: Instructor's permission. Corequisite: Enrollment in the designated general education course.

CPAS 130 Becoming a Master Student

1-3 hours. This course is designed to empower students to reach their academic goals. It introduces strategies, techniques, and self-management tools that research has shown contribute to educational success. Topics include academic goal setting, campus resources, use of technology, academic note-taking, test-taking strategies, and introduction to research skills necessary for university course work.

CPAS 214 Discover Your Calling

1 hour. This course promotes self-discovery and understanding in relationship to vocational calling, values, interests, strengths development and personality. Educational and occupational pathways are examined, with selecting a major and clarifying one's calling as the intended outcomes. Students will also be introduced to the importance of building a network, cultivating skills, and strategic academic planning. Prerequisite: freshman or sophomore status.

CPAS 216 Internship: Finding, Landing and Succeeding

1 hour. This course will help you to: identify a career direction, create a personal brand, build a professional network, write an effective resume and cover letter, create a LinkedIn profile that gets results, interview with confidence, create an internship search strategy, and succeed in your internship experience. Prerequisite: sophomore or junior status.

CPAS 285 Selected Topics

1-3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty or visiting professors.

CPAS 295 Academic Tutorial

1-3 hours. Students meet individually with a faculty member to improve their academic language skills and to develop more effective study strategies. Pass/No Pass.

CPAS 318 Navigating College to Career

1 hour. This course will focus on developing a personal and professional brand that expresses uniqueness, passion, and strengths to hiring managers. Navigating professional opportunities with important tools such as resume design, e-presence, networking, behavioral interviewing, and employer search and engagement strategies, along with identifying and creating professional goals will be emphasized. Students will participate in mock interviews with local recruiters. Prerequisite: junior or senior status.

CPAS 485 Selected Topics

1-3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty or visiting professors.

CPAS 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

CSIS

CSIS 201 Intro to Computer Science

3 hours. A foundational course for the study of computer science and information systems. The course covers an overview of programming methodology and gives the student an ability to write computer programs using standard style and structure. Programming projects are completed in one or more high-level languages. Prerequisite: high school algebra or equivalent. Additional course fee required.

CSIS 202 Intro to Computer Science II

3 hours. A foundational course for the study of computer science and information systems. The course covers an overview of programming methodology and gives the student an ability to write computer programs using standard style and structure. Programming projects are completed in one or more high-level languages. Prerequisite: CSIS 201 Introduction to Computer Science I or ENGR 152 Engineering Principles II. Additional course fee required.

CSIS 275 Field Experience

1 hour. Supervised experience with an off-campus industry, business, or institution, using computer science or data processing. Prerequisite: upper-division computer information science majors.

CSIS 285 Selected Topics

1-3 hours. A scheduled class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors. Prerequisite: upper-division computer information science majors.

CSIS 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

CSIS 300 Numerical Methods

3 hours. A study of numerical solutions of mathematical problems, including nonlinear equations, systems of linear equations, polynomial approximations, root finding, integration, and differential equations. Computer programs are written to solve these problems. (Identical to CSIS 300.) Prerequisites: MATH 311 Differential Equations with Linear Algebra and either CSIS 201 Introduction to Computer Science I or ENGR 152 Engineering Principles II.

CSIS 304 Web-Based Programming

3 hours. A computer programming course using web-based technologies. The emphasis of the course is placed on fundamental concepts of computer programming and application development through the creation of interactive Web applications. The course is designed for students who want to design and implement web-based applications. Additional course fee required.

CSIS 310 Data Structures

3 hours. An introduction to the concepts of information organization, methods of representing information both internally and externally. The course begins with basic structures (stacks, queues, linked lists, and trees) and moves through more complex data structures into the processing of files (sequential, relative, indexed sequential, and others). Programming projects are completed in one or more high-level languages.

Additional course fee required. Prerequisites: CSIS 201 Introduction to Computer Science I and CSIS 202 Introduction to Computer Science II.

CSIS 312 Computer Security and Digital Forensics

3 hours. In a highly connected, data intensive, and cost-focused business environment, the practice of information security is not a business advantage; it is a customer requirement. Viruses, malware, trojans, denial of service attacks, phishing, and even Wiki leaks have become headline news. Failure to insure the confidentiality, integrity, and availability of data, costs companies millions, if not billions of dollars in legal settlements, lost business, and trade secrets. In this breadth-based course, you will get an overview of information security principles and practices, including security models, risk management, access controls, intrusion detection and prevention, cryptography, software vulnerabilities, and ethical issues. This class will also provide an overview of digital forensics. Students will learn techniques behind digital forensic investigations and evidence collection, and will cover the fundamental steps of the traditional computer forensic methodology. Topics will include building forensic workstations, collecting evidence, extracting artifacts, identifying unknown files and reassembling evidence from network packet captures and device images. Additional course fee required. Prerequisite: CSIS 202 Introduction to Computer Science II.

CSIS 314 Client-Server Systems

3 hours. This course provides an introduction to constructing complete information systems based on the client-server model. On the client side, we introduce graphical user-interfaces, their design and implementation, as well as commonly used tools such as database access clients, and report generators. On the server side, we introduce database management systems and the use of server-side programming tools that provide connectivity for clients and access to database systems. Along the way, students are introduced to the basics of distributed computing and computer networks. Additional course fee required. Prerequisite: CSIS 202 Introduction to Computer Science II.

CSIS 321 Software Engineering

3 hours. An introduction to the strategies used in producing quality software. The life cycle of software development is presented and utilized. Larger projects are undertaken by teams of students in the initial phases. Additional course fee required. Prerequisite: CSIS 202 Introduction to Computer Science II.

CSIS 330 Human-Computer Interactions (HCI)

3 hours. Course is an introduction to the principles and methods with which one builds effective interfaces for users. A basic precept of HCI is that users should be able to focus on solving problems, rather than dealing with the intricacies of complex software. Interfaces must be accessible, meaningful, visually consistent, comprehensive, accurate, and oriented around the tasks that users tend to perform. The course will provide a balance of practical and theoretical knowledge, giving students experience ordinarily not provided by other courses in computer science. Students will also participate in group-projects to design, implement, and evaluate user interfaces. Additional course fee required. Prerequisite: CSIS 201 Intro to Computer Science I.

CSIS 340 Database Systems

3 hours. A study of the organization of database systems for information storage, retrieval, and security. Examples of hierarchic, network, and relational-based systems are presented. Additional course fee required. Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 350 Data Communications and Networks

3 hours. An introduction to the field of communications among computers and computer systems, with an emphasis placed on LANS (Local Area Network Systems) and the OSI model. Students will experience the installation of one or more network systems. Additional course fee required. Prerequisite: CSIS 202 Introduction to Computer Science II.

CSIS 360 Computer Architecture and Assembly Language

3 hours. An introduction to digital computer hardware architecture and organization. Topics include digital logic, processor design, instruction sets, and system architecture. Programs written in assembly language will be used to gain hands-on experience with the underlying system architecture. Additional course fee required. Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 370 Object-Oriented Analysis & Design

3 hours. This course covers the fundamental concepts of object-oriented programming languages, including data abstraction and typing, class inheritance and generic types, prototypes and delegation, concurrency control and distribution, object-oriented databases, and implementation. Object-oriented solutions will be developed in one or more high-level languages. Additional course fee required. Prerequisite: CSIS 310 Data Structures

CSIS 390 Emerging Mobile Technologies

3 hours. As more communications are conducted via mobile and cellular technologies, these technologies have become critical to both industry and private life. This course covers how data is processed and transmitted using mobile and wireless devices. Sample topics include but are not limited to: an overview of smart phone technologies, embedded operating systems, wireless and mobile specific protocols, mobile identifiers, location based services, Internet of Things, drone technologies and more. Prerequisites: CSIS 350 Data Communications and Networks and CSIS 460 Operating Systems

CSIS 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

CSIS 413 Advanced Security

3 hours. This course would cover a number of advanced topics such as cellular and mobile technologies and their security, system vulnerabilities and penetration testing of corporate networks/systems, risk management of information systems, and other current topics. Students will also be introduced to both international and U.S. cyber laws including reporting compliance. Prerequisite: CSIS 312 Computer Security & Digital Forensics

CSIS 420 Structures of Programming Languages

3 hours. A study of the basic design of computer programming languages, with the greater emphasis placed on semantics (over syntax). A comparative analysis is made among several of the common languages. Additional course fee required. Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 430 Analysis of Algorithms

3 hours. An introduction to the design and analysis of algorithms. The course covers the fundamentals of analyzing algorithms for correctness and time and space bounds. Topics include advanced sorting and searching methods, graph algorithms, geometric algorithms, matrix manipulations, string and pattern matching, set algorithms, and polynomial computations. Additional course fee required. Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 434 Parallel & Distributed Computing

3 hours. A theoretical and practical survey of parallel processing, including a discussion of parallel architectures, parallel programming languages, and parallel algorithms. Students will program one or more parallel computers in a higher-level parallel language. Additional course fee required. Prerequisite: CSIS 310 Data Structures

CSIS 440 Artificial Intelligence (AI)

3 hours. This course introduces the student to the basic concepts and techniques of artificial intelligence, knowledge representation, problem solving, and AI search techniques. AI solutions will be developed in an appropriate AI language. Additional course fee required. Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 450 Network Administration

3 hours. This course introduces the student to system administration of a LAN. Topics covered include adding and removing users; monitoring and controlling processes; adding, removing, and managing groups; mounting and unmounting filesystems; monitoring and troubleshooting a TCP/IP network; managing and controlling network and system security; and administration of network file systems. Prerequisite: CSIS 350 Data Communications and Networks. Additional course fee required.

CSIS 451 Cyber Defense

4 hours. This course introduces students to the concepts of defense in-depth, a security industry best practice. Topics include firewalls, backup systems, redundant systems, disaster recovery, and incident handling. Upon completion, students should be able to plan effective information security defenses, backup systems, and disaster recovery procedures. This course requires a lab component that provides practical experience working with current technologies for defense. Prerequisites: CSIS 413 Advanced Security and CSIS 450 Network Administration

CSIS 460 Operating Systems

3 hours. A study of the organization and architecture of computer systems. The major principles of operating systems are presented, along with case studies involving actual operating systems. Additional course fee required. Prerequisite: CSIS 310 Data Structures and File Processing.

CSIS 473 Secure Software

3 hours. Many security problems in software occur when software developers make poor implementation decisions or unwittingly introduce bugs into their code. This course will focus on many of the classic flaws in systems that can lead to security problems including: buffer overflows, format string problems, race conditions, memory leaks, etc. It will also cover many web-application specific topics such as SQL injection attacks and cross-site scripting (XSS) attacks. Prerequisite: ENGE 320 Microprocessor Architecture.

CSIS 475 Field Experience

1-3 hours. Supervised experience with an off-campus industry, business, or institution, using computer science or data processing. Pass/No Pass. Prerequisite: upper-division computer information science majors.

CSIS 480 Principles of Compiler Design

3 hours. This course introduces the student to the basics of building a compiler using a multiphase translation process. It covers lexical analysis, parsing, and translation to abstract syntax using modern parser generator technology. It discusses binding of identifiers and symbol table organization, and a variety of intermediate representations that are suitable for backend analysis. Other topics include type checking, attribute grammar representations, and printing from abstract syntax. Additional course fee required. Prerequisite: CSIS 310 Data Structures and File Processing. (CSIS 420 Structures of Programming Languages preferred.)

CSIS 485 Selected Topics

3 hours. A scheduled class with topics chosen to meet the special needs and interests of students, faculty, or visiting professors. Prerequisite: Upper-division Computer Science majors.

CSIS 490 Applied Software Development

1-3 hours. Special software development projects designed and completed by the student in an area that applies computers. This is an independent-study course and is supervised by staff in both the computer area as well as in the selected area of study. Prerequisite: upper-division computer information science majors and by permission.

CSIS 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ECON

ECON 211 Principles of Macroeconomics

3 hours. An introduction to the macro aspects of the social science concerned with the allocation of resources. Consideration is given to the fundamental principles of the economy as a whole, dealing with economic data, behavior, and theory at the aggregate level of the economy. The course studies topics such as government spending, taxation, and monetary policies, as well as events and issues in the global economy. ECON 211 and ECON 212 are complementary courses; however, it is preferred that ECON 211 be taken first.

ECON 212 Principles of Microeconomics

3 hours. An introduction to the micro aspects of the social science concerned with the allocation of resources. Consideration is given to the fundamental principles governing production, distribution, consumption, and exchange of wealth. The course studies the behavior of microeconomic units such as individuals, households, firms, and industries. ECON 211 and ECON 212 are complementary courses; however, it is preferred that ECON 211 be taken first. Prerequisites: Students must have completed MATH 180 College Algebra or higher math course, or an SAT math score of 620 or higher or an ACT score of 28 or higher.

ECON 275 Field Experience

3-6 hours. Supervised experiences in business, financial and research firms, and government agencies. Pass/No Pass. Prerequisite: upper-division students and by permission.

ECON 285 Selected Topics

2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

ECON 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ECON 301 Intermediate Microeconomics

3 hours. This course focuses on the following topics: basic theory of consumer behavior; production and costs; partial equilibrium analysis of pricing in competitive and monopolistic markets; general equilibrium; welfare; and externalities. The approach involves advanced algebra and rigorous application of concepts and methods to the analysis of markets from a decision making perspective. While required for economics majors this course is also valuable for student majoring in finance and management. Prerequisites: ECON 212 Principles of Microeconomics and MATH 190 Precalculus or higher.

ECON 302 Intermediate Macroeconomics

3 hours. The course studies the economy as a whole by examining the national income account, monetary policy and its aggregates such as money supply, price level, and interest rates, and fiscal policy and its aggregates such as real income, consumption, and investment. It covers topics presented in ECON 202 in a more advanced manner. The course will analyze the economy in the long run when prices are flexible, in the very long run with a special emphasis on capital accumulation, and in the short run when prices are sticky. It also discusses the microeconomics behind macroeconomics by

analyzing the aggregate consumption function in more detail. Prerequisites: ECON 202 and MATH 190 or higher.

ECON 340 Public Economics

3 hours. An overview of the economic role and impact of government, including topics in public finance, fiscal policy, monetary policy, and the banking system, and the economics of regulation. Prerequisites: ECON 211 Principles of Macroeconomics and ECON 212 Principles of Microeconomics.

ECON 370 International Economic Development

3 hours. This course introduces students to causes and consequences of 'the wealth of nations.' Students will learn theories of economic growth and poverty alleviation. Topics to be covered include: globalization, education, international trade, holistic conceptions of development, and the role of institutions. (Identical to INTL 370 and SOCI 370.) Prerequisite: ECON 212 Principles of Microeconomics

ECON 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ECON 410 Introduction to Applied Econometric

3 hours. This course deals with the application of statistical techniques to the analysis of economic data. Economists, financial analysts and others rely on econometric methods to estimate relationships and forecast employment, income and other trends. This course emphasizes hands-on application of econometric techniques to a variety of publicly available data. Considerable attention will be paid to the nature and sources of economic data and the application of econometric methods to common questions of value to managers and public decision-makers. Prerequisites: College level statistics course 200 level or higher. Students who've taken PSYC 240 or SOCI 340 must also complete MATH 150 or higher, or have a SAT math score of 620 or higher or have an ACT score of 28 or higher.

ECON 440 Urban and Regional Economics

3 hours. This course introduces students to the particular economic challenges and opportunities faced by rural areas, towns, and cities within the United States. Students will gain an understanding of the role of the market, firms, and government as local areas seek to improve the well-being they afford their citizens. Particular attention will be paid to transportation, affordable housing, natural amenities and other contemporary topics. Prerequisite: ECON 212 Principles of Microeconomics

ECON 463 International Trade and Finance

3 hours. Course provides an overview of international trade and finance. Trade theory is applied to understanding the direction of trade flows, the impact of trade barriers, and the role of bilateral and multilateral trade negotiations. The international finance portion of the course will consider the balance of payments, foreign exchange rates, and the globalization of financial markets. Throughout the course attention will be paid to global and national institutional arrangements which determine and influence trade and financial flows. Prerequisites: ECON 211 Principles of Macroeconomics and ECON 212 Principles of Microeconomics.

ECON 465 Economic Research

1-3 hours. Students will conduct an original research project that is overseen by a faculty member or approved party outside of the University. Prerequisites: upper division economics majors and by permission.

ECON 475 Field Experience

3-6 hours. Supervised experiences in business, financial and research firms, and government agencies. Pass/No Pass. Prerequisite: upper-division students and by permission.

ECON 485 Selected Topics

1-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

ECON 490 Economics Senior Seminar

3 hours. An integrative seminar focusing on current issues and developments in the discipline of economics, including discussion of ethical issues and the integration of faith and economics. A research paper is a significant component of the course requirements.;

ECON 495 Individualized Study

2-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

EDUC

EDUC 250 Teaching as a Profession

2 hours. This is a one-semester introductory course on the teaching profession for those planning to enroll in an MAT program or considering teaching as a profession. Students will expand their understandings of the field of education and the role of teachers through class topics and experiences. They will also participate in a 10-hour classroom field experience. The George Fox University MAT program application process and requirements will be discussed. (This course is not part of the undergraduate elementary education major.) Prerequisite: junior or senior status

EDUC 260 Teaching, Schooling and Learning

4 hours. Course is an overview of history and diverse social issues in education and an exploration of teaching as a career. Serves as an introduction to the teacher education program at George Fox University. Survey of learning theories and possible applications in the elementary classroom are explored. Required for elementary teaching majors and music education majors. Includes 10 hours of clinical practice. Prerequisite: declared major of undergraduate teacher education.

EDUC 270 Intercultural Communication in the ESOL/Bilingual Context

2 hours. Examines the diverse and dynamic role of culture in the ESOL student's language development and academic achievement. The course also emphasizes the application of this knowledge for instruction and the involvement of community and its resources for maximizing ESOL students' academic achievement.

EDUC 275 Field Experience

1-2 hours. An elective field placement individually designed with approval of the instructor. Does not substitute for required field assignments; 40 hours fieldwork per credit is required. Pass/No Pass.

EDUC 285 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

EDUC 295 Individualized Study

.5-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

EDUC 324 Trends and Methods of Early Childhood Education

4 hours. This course provides an overview of early childhood as a profession in relation to its historical, philosophical and social foundations. Students will examine how these functions influence current thought and be able to translate those theories into practice. Included will be age-level characteristics and child-centered activities that enhance developmentally appropriate practice, assessment, curriculum/instruction, environment, and family/community collaboration. The role of the teachers and ethical considerations are considered to promote reflective thinking, cultural competency, and positive use of technology to meet the needs of young children. Course goals align with the State of Oregon program objectives for early childhood and elementary OAR 584-017-0100, ages 3 years to the 4th grade and to the National Association for the Education of Young Children (NAYEYC) initial license standards. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 343 Adventures in Math and Science I

4 hours. This first course is designed to provide you with a firm understanding of research-based, best practices for teaching mathematics and science at the elementary and middle school levels. Prospective teachers will engage in activities that enhance conceptual knowledge of selected mathematics and science topics, while also developing pedagogical content knowledge. The instruction in the course models the type of learning experiences that have been shown to make a difference in students' thinking, understanding, and achievement. This course encourages prospective teachers to view school mathematics and science as a space for making sense of the world and promotes what it means to understand and do mathematics and science. Mathematics and science are disciplines where all students should be given opportunities to observe, investigate, explore, verify, explain, conjecture, discover, and generalize concepts and ideas using their own questions, curiosities, and interests in order to foster equity, access, and empowerment.

EDUC 344 Adventures in Math and Science II

4 hours. This second course is designed to provide you with a firm understanding of research-based, best practices for teaching mathematics and science at the elementary and middle school levels. Prospective teachers will engage in planning and instruction tasks that enhance conceptual knowledge of selected mathematics and science topics, while also developing pedagogical content knowledge. Part of developing pedagogical content knowledge entails a specific focus on utilizing technology and integration of mathematics and science across disciplines. This course encourages prospective teachers to view school mathematics and science as a space for making sense of the world and promotes what it means to understand and do mathematics and science. Mathematics and science are disciplines where all students should be given opportunities to observe, investigate, explore, verify, explain, conjecture, discover, and generalize concepts and ideas using their own questions, curiosities, and interests in order to foster equity, access, and empowerment. Prerequisite: Completion of EDUC 343 Adventures in Math and Science I.

EDUC 346 The Inclusive Classroom in a Diverse Society

4 hours. Examines strategies for planning, managing and teaching English as a second language and discipline-focused content to ESOL students. Emphasis is placed on curriculum, teaching, and hands-on learning approaches that accommodate a diverse population. Also included are strategies for collaborating with educators and community members in order to provide comprehensive, challenging educational opportunities for ESOL students. In this course, you are invited to evaluate best practices, use strategies for developing and integrating language skills, as well as choosing and adapting classroom resources, and reflecting on your role as an agent of change who will effectively empower students to reach their potential. This course will examine the diversity of cultures, languages, experiences, and knowledge that our students bring to our classrooms. This course will examine the tensions and barriers that are evident when students of diversity encounter the mainstream classroom in which they are the minority culture. Teacher perceptions and biases will be examined and challenged. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 353 Trends and Issues in Middle-Level Education

4 hours. This course provides an overview of middle level teaching as a profession in relation to its historical, philosophical and educational foundations. Students examine how these functions influence current thought and will be able to translate those

theories into practice. Included will be adolescent development and current teaching methods and structures that are developmentally appropriate for creating a positive learning environment. The role of teachers and ethical considerations are explored to promote reflective thinking, cultural competency, and positive use of technology to meet the needs of adolescents. Prerequisite: Admission to Teacher Education Program.

EDUC 354 Pedagogy of Health, Human Performance and the Arts

4 hours. Using the basic principles and elements of music and art, students will explore making connections between subjects in the elementary curriculum. This course examines and offers opportunities to apply health and human performance methods. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 371 Curriculum Design with ESOL

4 hours. Working within the differentiation framework (background knowledge, language, academic and behavior) BLAB, this course will examine and apply the concepts and instructional strategies that are essential for the academic achievement of our students from cultural, diverse, language, behavioral and academic backgrounds. Specific emphasis will be devoted to the success of our exceptional students and our second language learners. Integration of Social Studies into the methodology of the work sample will be addressed. Requires 20 hours of practicum. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 375 Practicum I

4 hours. The teacher candidate enters the classroom as a co-teacher who is collaborating with a cooperating teacher in developing and presenting instruction that is designed for the success of all students. Successful teaching and completion of a work sample is required. The work sample is a written documentation of the student's ability to teach all students. The practicum is scheduled 4 days a week for EDUC and 5 days a week for ELED. Pass/No Pass. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 376 Student Teaching I for Middle-Level Authorization

1 hour. A laboratory experience consisting of general and specific tasks, managing and instructing pupils and assisting teaching in the classroom. Prerequisites: EDUC 353 Trends & Issues in Middle-Level Education and EDUC 375 Student Teaching I & Classroom Management.

EDUC 381 Classroom Management

2 hours. Clearly, individual classroom teachers can have a major impact on student achievement. Of the three major roles of the classroom teacher – making choices about instructional strategies, designing classroom curriculum, and employing classroom management techniques – classroom management is arguably the foundation. Research on classroom management is integrated into the course. This course introduces the teacher candidate to research-based effective classroom management strategies. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures.

(Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

EDUC 412 Literacy for Children and Adolescents

2 hours. This course provides an overview of the content of children's and adolescent literature and its use in culturally responsive teaching. Children's and adolescent literature will be explored with an overview of the genre of literature, the work of authors and illustrators, and the use of children's and adolescent literature in teaching of all students. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 413 Reading and Writing Methods I

4 hours. This course creates a foundation for teaching listening, speaking, reading and writing in all grades, with a focus on beginning readers and writers from Pre-School to Grade 2. Literacy theory, literacy learner development, assessment, planning, teaching, and reflection will be modeled and applied. Using current standards, best practice, content on the language learning and development for English Language Learners (ELL) students the course will introduce and reinforce learning from English for Speakers of Other Languages (ESOL) courses with a focus on teaching all students well. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 414 Reading and Writing Methods with the Common Core Subjects

4 hours. This course builds on the foundation gained in Reading and Writing I and focuses on grade 3-8 readers and writers. Theory, learner development, diversity and content knowledge will be applied in lesson and unit planning and in teaching children in the placement. Assessment, planning, teaching and reflection will be modeled and experienced in classroom settings using the CCSS, best practice and attention to the needs of all learners. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 430 History and Foundations of Literacy Learning

2 hours. Offered spring and summer semesters. Format: classroom centered. Thoughtful classroom practice depends on sound theory. This course examines some current competing theories, looks at the implications of various literacy theories as they impact classroom decision making, and, through reading and discussion, helps develop a personal understanding of literacy processes. The linguistic framework of reading and its place in the language arts will also be explored.

EDUC 431 Analysis of Reading and Writing Assessments

2 hours. Offered fall and summer semesters. Classroom teachers become acquainted with a wide variety of methods for assessing student progress in reading and writing. Administration and scoring of these tests will be explored. Information about how testing results can facilitate teaching and learning is the goal.

EDUC 432 Advanced Strategies in Literacy Instruction: Assessment and Remediation

2 hours. This course focuses on current methods and materials for reading/literacy instruction. The strategies used by proficient readers will be explored and teaching methods will be modeled and implemented. Methods of assessment and strategies for remediation will also be explored.

EDUC 433 Advanced Studies in Children's and Adolescent Literature

2 hours. This course focuses on a critical examination of children's literature as literature, considers curriculum development based on children's literature, and on a further development of a broad understanding of literacy learning issues.

EDUC 434 Issues and Application of Literacy Instruction

2 hours. This course focuses on the issues related to public and school-based concerns about literacy learning. The discussion of issues will lead to research-based applications that can be translated into the classroom practice at the elementary, middle, or high school level.

EDUC 436 Reading and Writing in the Content Areas

2 hours. This course focuses on the reading and writing needs of the student at the middle level and in the high school. The teaching of critical reading and writing strategies will be included as well as assessment tools. This course is required for those pursuing the middle level and high school authorizations of the Reading Endorsement, but is appropriate for teachers of all levels.

EDUC 437 Emergent Literacy

2 hours. This course explores theoretical principles and practices based on current research. Emphasis is on strategies for coming to print, print conventions, and reading aloud. Shared, guided, and independent reading and writing is also explored. These strategies are based on theoretical assumption from the psychology of language and cognition development and linguistics.

EDUC 438 Organization Reading Programs

3 hours. The content of this course includes: the organization of reading programs within the context of state and federal regulation and within the structure of the school-wide program; the types of testing used to diagnose and monitor student progress; the methods that can be used to involve parents, paraprofessionals, and volunteers; and the methods available to assess program effectiveness. Observations in a variety of school settings will be organized.

EDUC 439 Early Childhood and Elementary Reading Practicum

2 hours. The reading practicum will provide a context in which to apply methods, assessment techniques, and teaching strategies in a school setting. It will also provide opportunity for an observation of a reading program in application. The practicum setting must include assessment, teaching, and evaluation of students at both authorization levels. Pass/No Pass. Prerequisites: EDUC 430 History and Foundations of Literacy Learning, EDUC 431 Analysis of Reading and Writing Assessments, EDUC 432 Advanced Strategies in Literacy Instruction, EDUC 438 Organization of Reading Programs, or by permission.

EDUC 461 Applied Linguistics and Second Language Acquisition

4 hours. Communication is the basis for all human interaction. In this course, we will explore key language theories of first and second language acquisition, since multiple fields intersect in their quest to explain language. Students will investigate and identify the underlying structure of language and its component systems through interactive, semester long projects with second language learners. Examines the fundamental elements, processes, and patterns of oral and written language for the teacher of English to speakers of other languages. Topics include phonetics, phonology, sociolinguistics, pragmatics, morphology, orthography and writing conventions, syntax, semantics, and discourse analysis. English is the primary focus of the course, with reference to other languages commonly spoken by students in Oregon classrooms.

Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 475 Practicum II

10 hours. The teacher candidate enters the classroom as a co-teacher who is collaborating with the collaborating with a cooperating teacher in developing and presenting instruction that is designed for the success of all students. Successful teaching and completion of a work sample is required. The work sample is a written documentation of the student's ability to teach all students. The practicum is scheduled 5 days a week. Pass/No Pass. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 476 Student Teaching III

0 hours. Converted Course Data

EDUC 478 ESOL/Bilingual Practicum - Early Childhood/Elementary

2 hours. A supervised practicum in an approved early childhood and elementary school demonstrating knowledge and strategies developed in the ESOL/bilingual courses. Candidates set goals for professional growth in the English-language teaching field. Course is offered on a Pass/No Pass basis only. Prerequisites: successful completion of all required ESOL/bilingual courses (or their equivalent) and approval of the faculty advisor.

EDUC 480 Classroom Assessment: Assessing and Planning for All Learners

4 hours. Building on the conceptual ideas of Assessment for Learning, this course focuses on the idea that assessment is a collaborative process that involves the student, teacher, and other stakeholders in a collaborative experience that is designed to empower student success. The four dimensions of background knowledge, language abilities, academics, and behavior assessments will provide the impetus for a course which investigates, develops, and plans assessments for all students, specifically including English language learners, special education students, talented and gifted students, and mainstream students. A wide diversity of classroom assessments will be explored. Additionally, the use and interpretation of standardized assessments will be examined. Through direct practice, teacher candidates will gain insights into identification, placement, monitoring and exiting criteria for ELL students according to federal and state policies; and will be prepared to implement fair and realistic accommodations/assessments in the mainstream classroom. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 485 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

EDUC 490 Senior Seminar

2 hours. This course assists teacher candidates to synthesize their foundation, methods and content background during the full time clinical experience, including content to prepare the teacher candidates as they transition into the teaching profession. The course content is presented in a professional development workshop while encouraging an understanding of the need for continued growth as teaching professionals as well as additional information on classroom management and differentiation. Prerequisite: Successful admission into the Undergraduate Elementary Education major program.

EDUC 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGB

ENGB 285 Selected Topics

2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGB 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGB 330 Biotransport

3 hours. Fluid mechanics principles applied to biological systems and medical devices. Properties of biological fluids, energy and momentum balances, computational modeling. Prerequisite: MATH 311 Differential Equations with Linear Algebra.

ENGB 340 Mechanics of Biomaterials

3 hours. Mechanical behavior and material selection process required in engineering for medical applications. Materials to be covered include both short-exposure, such as surgical tools and catheters, and long-exposure, such as implants / shunts. Topics to be included are: stress, strain, torsion and deflection of biomaterials, the manufacturing process, performance characteristics, biocompatibility testing, and long-term biological response (tissue formation / fibrosis). Relevant design considerations will be discussed, including common medical device standards relating to biomaterials testing and performance. Behavior of deformable body systems for biomaterials under combinations of external loading is presented. Two lectures and one laboratory per week. Additional course fee is required. Prerequisites: ENGR 250 Principles of Materials Science, ENGM 211 Statics, MATH 311 Differential Equations with Linear Algebra.

ENGB 350 Biosignal Analysis

3 hours. Medical imaging techniques have become important tools for monitoring of diseases and understanding of the molecular aspects of living organisms. This course provides a broad-based overview of major imaging techniques used in biomedical patient care and research. Application of analog, digital, and statistical techniques to the processing of biomedical signals. Includes sources, recording, and analysis of ECG, EEG, EMG, x-ray, computed tomography (CT), ultrasound, nuclear medicine (PET), and magnetic resonance imaging (MRI). The underlying physics, image formation theories and selected applications are presented. Prerequisites: MATH 311 Differential Equations with Linear Algebra, ENGE 260 Circuits and Instrumentation.

ENGB 351 Biosignal Analysis Lab

1 hour. Measurements of biomedical signals and systems in time and frequency domain, filter design and feedback control as applied to common biomedical imaging systems. One two-hour laboratory per week.

ENGB 370 Tissue Engineering

3 hours. Introduction to solving clinical issues including biomaterials, scaffolds, artificial organs, stem cell engineering, and regenerative medicine. Students will understand the fundamental principles of tissue engineering and apply these principles toward the fabrication of 3-D artificial tissue, organ regeneration, and regenerative medicine therapy. Provides various strategic approaches of cell/tissue-based engineering to

restore, maintain, and improve damaged and/or diseased tissue. Prerequisites: BIOL 211 General Biology I and ENGR 250 Principles of Material Science

ENGB 410 Design of Medical Devices

3 hours. The fundamental objective of this course is to explore medical device design and manufacturing. Students will thus learn about the working principles, design, manufacture, reliability and some regulatory hurdles involved in the development of biomedical devices and sensors. These include both external and implanted devices. Students will apply what they have learned to a design project culminating in a prototype presentation. Prerequisites: BIOL 222 Human Anatomy and Physiology II, ENGB 330 Biotransport, and ENGB 340 Mechanics of Biomaterials.

ENGB 420 Biomechanics

3 hours. From a biomechanical perspective, the healthy human skeleton is an optimal structure that has adapted its form in response to its function. Studying the mechanics of the skeleton provides information that can be used not only to design artificial prostheses and materials — and thus address specific health care issues — but also to aid in the design of more traditional engineering structures by understanding the behavior and underlying design features of this complex dynamic structure. The purpose of this course is twofold: to learn the fundamental concepts of orthopedic biomechanics and to enhance skills in mechanical engineering and bioengineering by analyzing the mechanical behavior of various complex biomedical problems. Prerequisites: ENGM 360 Finite Elements and Computer Modeling

ENGB 430 Rehabilitation Engineering

3 hours. The course provides a basic understanding of assistive technology research and application in: wheelchair technology, augmentative communication, computer access, transportation safety, home and work site modifications, environmental access, and prosthetics. Issues related to terminology, interdisciplinary communication, consumer empowerment, information resources and service delivery development are also stressed. Course includes a weekly laboratory session that incorporates in vivo non-invasive kinematics measurements. Prerequisites: BIOL 222 Human Anatomy and Physiology II and ENGB 340 Mechanics of Biomaterials.

ENGB 485 Selected Topics

2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGB 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGC

ENGC 210 Site Development w/ AutoCAD and Civil 3D

2 hours. Introduction to civil design for transportation, municipal, and private development projects. Creation of digital topographic maps using survey data of existing terrain is emphasized. For transportation systems the geometric layout of highways, streets, and intersections is covered using current AASHTO and ODOT standards. For private and municipal projects, site plans include vehicle access, parking, and pedestrian access in accordance with ADA requirements and Oregon state codes. Storm water drainage and sanitary sewer pipe systems are designed in accordance with local or state standards. The development of grading plans for on-site construction activities is emphasized. This course introduces students to drafting and design using AutoCAD and Civil3D software. Additional course fee is required. Prerequisites: ENGR 151 Engineering Principles and MATH 201 Calculus I.

ENGC 220 Engineering Surveying

2 hours. Basic principles of land surveying and surveying equipment. Concepts include calculating position on spherical and plane surfaces. Principles of vertical and horizontal measurements in engineering and construction projects. One lecture and one three-hour laboratory per week. Additional course fee is required. Prerequisite: MATH 190 Precalculus Mathematics

ENGC 285 Special Topic

1-31 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

ENGC 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGC 310 Environmental Engineering

3 hours. Course covers fundamental environmental engineering and science principles relevant to engineered and natural systems. Topics include an introduction to sustainability, equilibria, kinetics, mass and energy balances, mass transport processes, population dynamics, water quality, sources of pollution, ecosystem structure and function, biogeochemical cycling, and oxygen demand. The course also includes an introduction to application of these principles to the design of environmental control measures and engineered systems, including design of water supply and treatment processes, wastewater treatment processes, processes for air pollution control, and groundwater remediation. Prerequisites: CHEM 211 General Chemistry and MATH 311 Differential Equations with Linear Algebra.

ENGC 330 Structural Analysis and Design

3 hours. Analysis and design of statically determinate and indeterminate structures; beams, trusses, frames, arches, and cables. Methods include classical, energy, matrix, and computer solutions. Additional course fee is required. Prerequisites: ENGM 320 Mechanics of Materials.

ENGC 340 Geotechnical Engineering

4 hours. Course covers basic physical and mechanical properties of soils, including specific gravity, grain size distribution, plasticity, permeability, consolidation and shear strength. Includes the application of these properties to calculate stresses in a soil

mass, lateral earth pressures for walls and anchor blocks, and slope stability analysis. Instruction in site investigation and introduction to insitu testing. Three lectures and one two-hour laboratory per week. Additional course fee required. Prerequisites: ENGM 320 Mechanics of Materials.

ENGC 350 Water Resources Engineering

4 hours. Fundamental concepts of hydraulics and hydrology, and their application in civil engineering. Topics include applications of fluid mechanics to hydraulic infrastructure, principals of open channel flow, the hydrologic cycle, precipitation, evaporation, stream flow hydrographs, hydrologic and hydraulic stream routing, hydrologic measurements, and application of hydrologic models. Three lectures and one two-hour laboratory per week. Additional course fee is required. Prerequisites: ENGM 330 Fluid Mechanics.

ENGC 360 Engineering Economics

2 hours. Introduction to economic analysis techniques for engineering decision-making. Topics include the time value of money, cost estimation methods, cash flow, interest, equivalence, depreciation, and inflation. Compare engineering alternatives on the basis of economic parameters. Additional course fee is required. Prerequisites: Senior standing or instructor permission.

ENGC 370 Transportation Engineering

3 hours. Introduction to planning, design, and operation of transportation systems. Concepts of human factors and vehicle performance characteristics in design. Topics include geometric design of highways, traffic stream variables, basic traffic flow models, applications of statistical analysis in traffic queueing theory, highway and street intersection capacity, level of service analysis for highways, traffic control concepts, travel demand and traffic forecasting, and an introduction to highway materials and pavement design. Additional course fee is required. Corequisite: MATH 330 Engineering Statistics Prerequisites: ENGM 211 Statics and ENGC 220 Engineering Surveying

ENGC 430 Reinforced Concrete Design

3 hours. Fundamental principles of reinforced concrete design in accordance with the ACI Building Code. Topics include concrete materials, beams in bending, shear, and torsion, development, anchorage and splicing, serviceability, columns, slabs, frames, and footings. Additional course fee is required. Prerequisites: ENGC 330 Structural Analysis and Design.

ENGC 450 Construction Management and Professional Practice

2 hours. Principles and practice of construction engineering and project management. Development of cost estimates and project schedules. Basic construction methods and fundamental construction terminology. Overview of civil engineering professional practice including career paths, ethics and professionalism, project planning, dispute resolution, and effective decision making. Two lectures and one two-hour laboratory per week. Additional course fee is required. Prerequisites: Senior standing or consent of instructor.

ENGC 460 Design of Steel Structures

3 hours. Basic principles of structural steel design and analysis. Topics include axial members, beams, bolted and welded connections, composite beams, and structural systems. Emphasis will be on the LRFD Method and AISC Code. Additional course fee is required. Prerequisites: ENGC 330 Structural Analysis and Design.

ENGC 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

ENGC 485 Selected Topics

1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty. Additional course fee required.

ENGC 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGE

ENGE 220 Digital Logic Design

4 hours. Introduction to digital systems and binary codes; Boolean algebra and digital logic devices; combinational logic circuits and design methods; ROM and RAM memory elements; sequential logic circuits and design methods. Laboratory experience includes TTL logic circuits and CAD tools. Three lectures and one laboratory per week. Additional course fee is required. Prerequisite: ENGR 152 Engineering Principles II or CSIS 201 Introduction to Computer Science I.

ENGE 250 Electrical Circuit Analysis

4 hours. Basic concepts of DC and AC electrical circuits are covered, as are voltage-current relationships for circuit elements, Kirchhoff's laws, and Thévenin and Norton theorems. Includes basic transient and sinusoidal steady-state analysis; frequency domain analysis; frequency response, resonance and measurement concepts. Applications of the operational amplifier. Analysis and design aided by circuit simulation software. Three lectures and one laboratory per week. Additional course fee is required. Prerequisites: ENGR 152 Engineering Principles II, MATH 311 Differential Equations with Linear Algebra and PHYS 212 General Physics with Calculus II.

ENGE 260 Circuits and Instrumentation

4 hours. An introduction to DC and AC circuit theory, electronics, and instrumentation. Specific areas of study include Ohm's law, basic circuit analysis techniques, electrical power, motor selection, circuit simulation software, measurement methods, various types of instrumentation devices, and data acquisition. Three lectures and one laboratory per week. Additional course fee is required. Prerequisites: ENGR 152 Engineering Principles II and PHYS 212 General Physics with Calculus II.

ENGE 270 Electric Power Systems

3 hours. This course is an introduction to electrical power systems, with a focus on power generation, transmission, and loads. AC and DC electric machines, transformers, power transmission lines, and three phase power systems are discussed. Includes phasor analysis, rms signals and power factor. Additional course fee is required. Corequisite: ENGE 250 Electrical Circuit Analysis. Prerequisite: PHYS 212 General Physics with Calculus II.

ENGE 275 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

ENGE 285 Special Topic

1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty. Additional course fee required.

ENGE 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGE 300 C Programming with Applications

3 hours. Introduction to the C programming language as a means to perform low-level access and control of hardware with a high-level language. Custom software applications, portability issues, application of pointers, and introduction to data structures. Applications to engineering problems, including data acquisition and control systems. Additional course fee is required. Prerequisites: ENGE 220 Digital Logic Design.

ENGE 311 Electronic Devices and Circuits

4 hours. Introduction to the terminal characteristics of active semiconductor devices. Operation and small-signal models of diodes, junction and field-effect transistors, and operational amplifiers. Basic single-stage and multistage amplifiers: gain, biasing, and frequency response. Switching characteristics of transistors in saturation and cutoff. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: ENGE 220 Digital Logic Design and ENGE 250 Electrical Circuit Analysis.

ENGE 312 Applications of Electronic Devices

4 hours. Analog and digital applications of electronic devices: amplifiers, oscillators, filters, modulators, logic circuits, and memory elements. Feedback, stability, and noise considerations. Emphasis on practical design problems and the formulation of design objectives. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisite: ENGE 311 Electronic Devices and Circuits and ENGE 330 Electrical Signals and Networks.

ENGE 320 Microprocessor Architecture

4 hours. This course teaches students fundamental knowledge in microprocessor architecture. Course topics include microcomputer architecture, assembly language and higher-level programming, I/O programming, data communications, data acquisition systems, memory interfacing and memory architecture. Three lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisite: CSIS 202 Introduction to Computer Science II and CSIS 310 Data Structures or ENGE 220 Digital Logic Design.

ENGE 330 Electrical Signals and Networks

3 hours. Fundamental concepts of continuous-time and discrete-time signals and systems are covered. Topics covered include linear time-invariant systems, the convolution integral and impulse response; Fourier series and frequency domain analysis; Fourier and Laplace techniques; principles of sampling and modulation; theoretical and practical aspects of electrical networks; loop and nodal analysis of multi-port networks; admittance, impedance, and transmission parameters; and matrix solutions. Additional course fee is required. Prerequisite: ENGE 250 Electrical Circuit Analysis and MATH 301 Calculus III.

ENGE 350 Electrical Network Analysis

3 hours. Theoretical and practical aspects of electrical networks. Loop and nodal analysis of multi-port networks. Admittance, impedance, and transmission parameters; matrix solutions. Butterworth, Chebyshev, and other useful network response functions; network theorems. Synthesis of passive and active networks. Additional course fee is required. Prerequisite: ENGE 250 Electrical Circuit Analysis.

ENGE 360 Electromagnetic Fields and Waves

3 hours. Theoretical study of static and dynamic electric and magnetic fields. Gauss' law and the static electric field; boundary value problems in electrostatics. Effects of dielectric and magnetic media properties. Magnetostatics; Faraday's law and

applications. Maxwell's equations for time-varying fields; wave propagation; Poynting's theorem. Numerical methods and computer simulation tools in electromagnetics are introduced. Additional course fee is required. Prerequisites: ENGE 250 Electrical Circuit Analysis and MATH 301 Calculus III.

ENGE 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ENGE 410 Digital System Design

3 hours. Practical aspects of digital design with Hardware Description Languages including the design, construction, and testing of significant digital subsystems. Explorations of advanced digital design concepts such as timing-driven synthesis, integration of intellectual property and design for reuse. Extensive use is made of computer-aided engineering (CAE) tools and Field-Programmable-Gate-Array (FPGA) technology in course assignments. Two lectures and one two-hour laboratory per week. Additional course fee is required. Prerequisite: ENGE 420 Microprocessors.

ENGE 420 Embedded System Design

3 hours. This course teaches students how to design and manufacture microcontroller-based embedded computer systems. Course topics include printed circuit board design and fabrication, I/O interface design, I/O peripheral devices, and data communication interfaces. Real-time operating systems and their integration into an embedded system will be examined. Design projects involve the construction and programming of a microcontroller-based embedded system. Two lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: ENGE 311 Electronic Devices and Circuits and ENGE 320 Microprocessor Architecture.

ENGE 430 Communication Systems

3 hours. Introduction to analog and digital communications theory and applications. Topics include encoding, modulation and multiplexing techniques, spectral analysis, transmission line effects, noise analysis and filtering, multiple-channel and fiber optic communications, telecommunication systems, and data communications applications. Additional course fee is required. Prerequisite: ENGE 330 Electrical Signals and Networks.

ENGE 460 Microwave Engineering and Applications

3 hours. Study of microwave circuits, devices, and techniques as applied to cellular communications and other modern systems. Propagation and reflection on ideal and lossy transmission media. Smith chart and S-parameter tools. Strip lines, microstrip and coplanar lines, and cross talk. Analysis and design of microstrip circuits. Introduction to antenna fundamentals. Includes computer and laboratory exercises. Two lectures and one three-hour laboratory per week. Additional course fee is required. Prerequisites: ENGE 312 Applications of Electronic Devices and ENGE 360 Electromagnetic Fields and Waves.

ENGE 470 Power Electronics and Renewable Energy

3 hours. This course is an introduction to DC-DC converters, rectifiers, inverters, and electrical renewable energy sources. Power electronics switch characterization is discussed and a renewable energy project is integral to the course. Additional course

fee is required. Prerequisites: ENGE 270 Electrical Power Systems and ENGE 312 Applications of Electronic Devices.

ENGE 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

ENGE 480 Digital Signal Processing

3 hours. Sampling as a modulation process, aliasing, the sampling theorem, the Z-transform and discrete-time system analysis, direct and computer-aided design of recursive and nonrecursive digital filters, the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT), digital filtering using the FFT, analog-to-digital and digital-to-analog conversion, effects of quantization and finite-word-length arithmetic. Additional course fee is required. Prerequisite: ENGE 312 Applications of Electronic Devices.

ENGE 485 Selected Topics

1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty. Additional course fee required.

ENGE 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGM

ENGM 211 Statics

3 hours. Static force and moment vectors, resultants. The free-body diagram is used extensively to understand the equilibrium of a whole physical system through isolation of each component, particle, or body. Applications to simple trusses, frames, and machines. Distributed loads. Internal forces in beams. Properties of areas, second moments. Laws of friction. Additional course fee is required. Co-requisite: MATH 301 Calculus III Prerequisites: ENGR 152 Engineering Principles II and PHYS 211 General Physics w/Calculus I.

ENGM 212 Dynamics

3 hours. This course considers the mathematical description of particles and rigid bodies in motion under the action of forces, moments and couples. Students learn how to describe the geometry of motion (kinematics) and then move into two and three-dimensional kinetic analysis. Applications using computer software are included. Additional course fee is required. Prerequisite: ENGM 211 Statics

ENGM 220 Materials and Processes in Manufacturing

3 hours. Mechanical and metallurgical fundamentals of cutting operations, metal forming by deformation, material fabrication, and nontraditional processing. Manufacturing systems, concepts in production, green design, and design for manufacturability (DFM). Additional course fee is required. Corequisite: ENGR 250 Principles of Materials Science

ENGM 275 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

ENGM 285 Special Topics

2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGM 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGM 311 Engineering Thermodynamics

3 hours. Classical treatment of thermodynamics emphasizing the first and second laws and their application to closed and open (control volume) systems undergoing steady, unsteady, and cyclic processes. Introduction to vapor power systems. Tabular and graphical thermodynamic property data are used in analytical work. Additional course fee is required. Prerequisite: ENGR 152 Engineering Principles II and PHYS 212 General Physics with Calculus II.

ENGM 312 Applications of Engineering Thermodynamics

2 hours. Advanced topics in the first and second laws of thermodynamics. Covered topics include availability and irreversibility, vapor and gas power cycles, mixtures of gases and vapors, non-reacting flows, and compressible flow. Also covered are applications to spark and compression ignition engines, gas and vapor turbines,

refrigeration systems, heat exchangers, and psychrometrics. Additional course fee is required. Prerequisite: ENGM 311 Engineering Thermodynamics.

ENGM 320 Mechanics of Materials

3 hours. Behavior of deformable body systems under combinations of external loading is presented. Analysis of stress, deformation, strain, failure fatigue, and creep are included. Mathematical, graphical, and energy methods are utilized. Additional course fee is required. Prerequisites: ENGM 211 Statics and ENGR 250 Principles of Materials Science.

ENGM 321 Mechanics of Materials Lab

1 hour. Behavior of deformable body systems under combinations of external loading is presented. Analysis of stress, deformation, strain, failure fatigue and creep are included. Mathematical, graphical and energy methods are utilized. One two-hour laboratory per week. Additional course fee is required. Corequisite: ENGM 320 Mechanics of Materials.

ENGM 330 Fluid Mechanics

3 hours. Course covers presentation and development of fundamental concepts of fluids such as continua, including velocity, pressure, and viscosity. Topics include fluid statics, hydrostatic analysis of submerged bodies and manometry methods; development of the governing equations of mass, momentum, and energy conservation for fluid motion using both integral and differential control volume analysis; incompressible inviscid flow, dimensional analysis and similitude; pipes, ducts, and open channel flow; and boundary-layer concepts and their application to lift and drag. Additional course fee is required. Prerequisites: ENGM 212 Dynamics, ENGM 311 Engineering Thermodynamics and MATH 311 Differential Equations w/ Linear Algebra.

ENGM 350 Machine Dynamics and Vibrations

3 hours. Kinematic and dynamic analysis of basic mechanisms with an introduction to kinematic synthesis. Fundamentals of vibration theory and their application to lumped parameter systems. Both single- and multi-degree of freedom systems having steady-state and transient responses are considered. Concepts of machine dynamics and design are supplemented with mathematical, graphical, and computer techniques and analysis. Applications using dynamic analysis software are included. Additional course fee is required. Prerequisites: ENGM 212 Dynamics and MATH 311 Differential Equations with Linear Algebra.

ENGM 360 Finite Elements and Computer Modeling

3 hours. Solution to problems in mechanical engineering using numerical techniques. Development of numerical models beginning with physical model analysis, description of appropriate governing equations, selection of critical parameters, choice of solution methodology, and application of numerical solution procedure. Applications selected from a wide variety of topics in mechanical engineering. Problems will be solved by hand using the finite element method (FEM) and via software packages that use both FEM and the finite volume method. Advanced solid modeling techniques are also covered. Additional course fee is required. Corequisite: ENGM 380 Heat Transfer Prerequisites: ENGM 320 Mechanics of Materials and ENGM 330 Fluid Mechanics. or ENGB 330 Biotransport and ENGB 340 Mechanics of Biomaterials.

ENGM 380 Heat Transfer

3 hours. Course covers fundamental aspects of conduction, convection, and radiation heat transfer; analytical and numerical solutions of heat transfer problems, estimation of heat transfer coefficients, and heat exchanger design. Boiling and condensation

are also considered. Additional course fee is required. Prerequisite: ENGM 330 Fluid Mechanics.

ENGM 381 Energy Lab

1 hour. Laboratory exercises are included to enhance course theory from Application of Engineering Thermodynamics, Fluid Mechanics, and Heat Transfer. Hands-on experiences will occur with measurement apparatus and analysis techniques. Common misconceptions will be addressed. One two-hour laboratory per week. Additional course fee is required. Corequisite: ENGM 380 Heat Transfer. Prerequisites: ENGM 312 Application of Engineering Thermodynamics and ENGM 330 Fluid Mechanics.

ENGM 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ENGM 400 Mechanical Engineering Design

3 hours. Fundamental principles for the synthesis, analysis, and design of mechanical elements and systems. The use of statics, dynamics, mechanics of materials, and failure theories to evaluate mechanical systems under static and dynamic loading. Application of design techniques to specific mechanical components such as gears, springs, shafts, bearings, and fasteners, with an emphasis on design for manufacturability. Computer modeling tools including finite element analysis are utilized. Additional course fee is required. Prerequisites: ENGM 320 Mechanics of Materials and ENGM 350 Machine Dynamics and Vibrations. Corequisite: ENGM 360 Finite Elements and Computer Modeling

ENGM 420 Biomechanics

3 hours. From a biomechanical perspective, the healthy human skeleton is an optimal structure that has adapted its form in response to its function. Studying the mechanics of the skeleton provides information that can be used not only to design artificial prostheses and materials — and thus address specific health care issues — but also to aid in the design of more traditional engineering structures by understanding the behavior and underlying design features of this complex dynamic structure. The purpose of this course is twofold: to learn the fundamental concepts of orthopedic biomechanics and to enhance skills in mechanical engineering and bioengineering by analyzing the mechanical behavior of various complex biomedical problems. Prerequisites: ENGM 360 Finite Elements and Computer Modeling

ENGM 450 Fundamentals of Flight Dynamic

3 hours. This course provides an introduction to flight dynamics of aircraft and autonomous aircraft systems. Longitudinal, lateral and directional static stability will be analyzed for conventional aircraft. The complete aircraft governing dynamic equations will be developed and reduced to conventional linear mode approximations using small disturbance theory. Linear systems theory is used to analyze, design aircraft, and develop control systems to meet desired dynamic performance metrics. Additional course fee is required. Prerequisites: ENGM 350 Machine Dynamics and Vibration.

ENGM 470 Energy Systems Engineering

3 hours. Fundamental principles of energy engineering with applications to both fossil fuel combustion and alternative energy systems. The first half of the course is

dedicated to a quantitative understanding of fossil fuel combustion and its applications. Stoichiometry, flame temperature, chemical kinetics and applications of both premixed and diffusion flames, as well as sources of emissions and emission control strategies are presented. The second half of the course is focused on alternative and renewable energy systems, from a technical, economic, and environmental perspective. Students will study the basic theory of fuel cells, wind turbines, photovoltaic devices, biomass and nuclear energy generation and determine component and system efficiencies. Additionally, students will become familiar with the relationship between ethical issues and the quality of our environment, and the complex interplay between engineering systems and society. This course builds on previous studies in thermodynamics, fluid mechanics and heat transfer. Additional course fee required.

ENGM 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

ENGM 480 Control Systems Engineering

3 hours. This course covers various aspects of control system engineering including dynamic system modeling, control system stability and performance analysis in the frequency and time domains. Special attention is given to compensator design by PID. Principles of closed loop mechanical, electrical, hydraulic, pneumatic, and thermal systems are considered. Laboratory experiments include both MATLAB simulations and PLC programming with applications. Two lectures and one laboratory per week. Additional course fee is required. Prerequisite: ENGM 350 Machine Dynamics and Vibrations and MATH 311 Differential Equations with Linear Algebra.

ENGM 485 Special Topics

1-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGM 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGR

ENGR 151 Engineering Principles I

3 hours. Introduction to the concepts and methods of engineering problem solving and design. Topics include the following: analysis and design methodologies, structured computer programming, basic principles of engineering graphics, the visualization and modeling of real-world systems, and an introduction to the history and ethics of the engineering profession. Computer-aided-design (CAD) tools, solid modeling and simulation software, and mathematics software applications are presented. Students work on numerous team design projects, communicating their results through oral and written reports. Meets twice weekly in a lecture/lab environment. Additional course fee is required. Prerequisite: MATH 190 Precalculus Mathematics or equivalent.

ENGR 152 Engineering Principles II

3 hours. Introduction to the concepts and methods of engineering problem solving and design. Topics include the following: analysis and design methodologies, structured computer programming, basic principles of engineering graphics, the visualization and modeling of real-world systems, and an introduction to the history and ethics of the engineering profession. Computer-aided-design (CAD) tools, solid modeling and simulation software, and mathematics software applications are presented. Students work on numerous team design projects, communicating their results through oral and written reports. Meets twice weekly in a lecture/lab environment. Additional course fee is required. Prerequisite: ENGR 151 Engineering Principles I.

ENGR 250 Principles of Materials Science

3 hours. Course concerns the science underlying the behavior of engineering materials, including the relation between atomic structure and mechanical, electrical, and magnetic properties in metals, ceramics, polymers, composite materials, and semiconductors. Phase diagrams, heat treatment, and corrosion mechanisms are also presented. Laboratory exercises are included to enhance course theory and to provide hands-on experience with materials measurement apparatus and analysis techniques. Two lectures and one laboratory per week. Additional course fee is required. Prerequisites: CHEM 211 General Chemistry I and ENGR 152 Engineering Principles II.

ENGR 275 Field Experience

1-4 hours. Supervised experience with an off-campus industry, business, or institution where the student is working in some engineering-related discipline. Admission and credit hours determined by instructor. Pass/No Pass.

ENGR 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGR 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENGR 381 Servant Engineering I

2 hours. Servant engineering is a two-semester course sequence typically taken in the student's junior year. In the summer before the course begins, students research a potential engineering project designed to serve others. These projects are proposed early in the first semester, and the most feasible projects are selected for the program.

Students are then assigned to a team of four or five who work on a selected project. Projects might require a multi-disciplinary team ranging from computer science to civil engineering, or they might be more focused on a specific skill-set. Each team has a faculty mentor who helps guide the project. In both semesters, teams meet weekly with their faculty mentors and work through problem definition, specification development and conceptual development, with the goal of selecting a specific design for detailed design-and-build. Every project will be an opportunity to use the gifts that God has given us to serve others. Additional course fee is required. Prerequisite: ENGR 152. Final enrollment is contingent on approval from the College of Engineering.

ENGR 382 Servant Engineering II

2 hours. Servant engineering is a two-semester course sequence typically taken in the student's junior year. In the summer before the course begins, students research a potential engineering project designed to serve others. These projects are proposed early in the first semester, and the most feasible projects are selected for the program. Students are then assigned to a team of four or five who work on a selected project. Projects might require a multi-disciplinary team ranging from computer science to civil engineering, or they might be more focused on a specific skill-set. Each team has a faculty mentor who helps guide the project. In both semesters, teams meet weekly with their faculty mentors and work through problem definition, specification development and conceptual development, with the goal of selecting a specific design for detailed design-and-build. Every project will be an opportunity to use the gifts that God has given us to serve others. Additional course fee required. Prerequisite: ENGR 381. Final enrollment is contingent on approval from the College of Engineering.

ENGR 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

ENGR 475 Field Experience

1-4 hours. Supervised experience with an off-campus industry, business, or institution where the student is working in some engineering-related discipline. Admission and credit hours determined by instructor. Pass/No Pass.

ENGR 481 Senior Design I

1 hour. In the senior design sequence, students apply their knowledge and design skills gained through course work to an industry-based project. In the first semester, interdisciplinary teams are formed to begin projects in conjunction with participating industrial sponsors. Necessary background research and feasibility studies are completed. Students must also consider the ethical, moral, environmental, and social impact of their designs. Collaboration with other departments of the university is encouraged. Additional course fee is required. Prerequisite: senior status in the engineering major.

ENGR 482 Senior Design II

3 hours. The projects that were initiated in the first semester are further developed through simulation, prototyping, and testing. Use of analytic, computer, experimental, and design techniques is applied throughout the project. The design sequence

culminates in the construction of the projects, oral presentations, and formal written reports. Additional course fee is required. Prerequisite: ENGR 481 Senior Design I.

ENGR 485 Selected Topics

2-4 hours. Occasional special courses chosen to fit the interests and needs of engineering students and faculty. Additional course fee is required.

ENGR 490 Senior Seminar

1 hour. A seminar series that discusses current trends and issues in the engineering profession. Features invited speakers from the industrial sector. Preparation for job search and post-graduation life. Additional course fee is required. Prerequisite: senior status in the engineering major or by permission.

ENGR 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENPR

ENPR 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

ENPR 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ENPR 300 Entrepreneurship I

3 hours. New Venture Feasibility Focuses on developing ideas for new businesses. Case studies and group exercises are utilized to help students determine which ideas might result in feasible businesses. Students select a business idea and then write a feasibility plan, a first step in developing a detailed business plan. This plan will determine if the idea has profit potential. Prerequisites: BUSN 110 Introduction to Business and MKTG 260 Principles of Marketing.

ENPR 400 Entrepreneurship II

3 hours. Business Plan Development: This course is designed to immerse the student in the dynamics of planning, establishing, and growing a new business. The course focuses on the development of a business plan that identifies a market need, evaluates the financial viability of the venture, and organizes the resources to launch the business. This course is taught in a seminar format using both the analysis of cases and the evaluation of business plans. Prerequisites: ENPR 300 Entrepreneurship I and MKTG 260 Principles of Marketing.

ENPR 410 Entrepreneurship III

3 hours. Funding New Ventures: This course focuses on the potential funding sources for the business plans written in Entrepreneurship II. Attention is given to both equity and debt financing. Funding sources studied include venture capital funds, bank financing, SBA loans/grants/guarantee, angel investors, community development funds, and others. The course explores appropriate legal forms of business to accompany chosen financing strategies including limited liability companies, limited liability partnerships, corporations (C and Subchapter S), limited and general partnerships, sole proprietorships, holding companies, and others. Attention is given to developing the deal structure and investor exit strategy as well as limitations imposed on raising capital by the Securities and Exchange Commission. Prerequisite: ENPR 400 Entrepreneurship II.

ENPR 475 Field Experience

1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies. Pass/No Pass.

ENPR 485 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

ENPR 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

ESLA

ESLA 005 Conversation Tutorial

1 hour. Each student is paired with an American student for conversation, orientation to life in a new culture, and optional academic tutoring. Pass/No Pass.

ESLA 050 Reading

4 hours. A course designed to teach basic reading skills and vocabulary.

ESLA 060 Writing and Grammar

4 hours. An introduction to the fundamental structure and vocabulary of the English language, focusing on the development of writing skills.

ESLA 080 Speaking and Listening

4 hours. A course designed to introduce and develop basic academic speaking and listening skills, with emphasis on conversation, discussion, and short speeches. Vocabulary, pronunciation, grammar, and cultural issues are addressed within the context of a variety of discussion topics. Listening laboratory is required.

ESLA 090 English by Video

2 hours. Offered spring semester. A practical course in which students develop English skills through reading, writing, speaking, and listening based on various types of videos.

ESLA 150 Academic Reading

4 hours. This course concentrates on improving students' reading fluency through extensive reading of fiction and nonfiction books and systematic development of vocabulary, reading speed, and study skills. Reading lab and vocabulary lab are required.

ESLA 160 Writing and Grammar

4 hours. In this course, students develop fluency and clarity in expressive and narrative writing and in academic writing assignments, including a research paper. Students develop composing, revising, and editing skills in a workshop atmosphere. Grammar and usage, punctuation, spelling, and format are addressed during the editing process. A major goal is to improve keyboarding and word-processing skills.

ESLA 180 Speech, Listening, and Note-taking

4 hours. This course provides training and practice in academic speaking and listening. Students give various types of formal speeches and learn strategies for taking accurate and comprehensive notes from academic lectures.

ESLA 240 Adjunct Listening

3 hours. This course cultivates skills of listening and note-taking in academic lectures, including identifying main ideas and distinguishing supporting information, understanding relationships among ideas, and taking notes that reflect this understanding. Assignments are based on lectures from the general education course in which students are concurrently enrolled. Video lab and group tutorial are required.

ESLA 250 Adjunct Reading

3 hours. An intensive course to improve academic reading skills, including vocabulary, reading speed, reading strategies, and test taking. Assignments are based on class texts from the general education course in which students are concurrently enrolled. Reading lab and vocabulary lab are required.

ESLA 260 Academic Writing

5 hours. This course provides instruction and practice in the types of writing commonly found in college courses, including the research paper, essays and essay exams, and reaction papers. Process, organization, and mechanics are emphasized. Principles of advanced English grammar and usage are applied in writing assignments.

ESLA 280 Speech

3 hours. A practical course to help students improve their academic speaking skills, with emphasis on formal speeches, group presentations, small-group interaction, and pronunciation.

ESLA 281 Reading and Vocabulary for Academia

3 hours. In this course, students develop their ability to read a variety of academic texts in the liberal arts and professions, including textbooks, journal articles, and various literary genres. They increase their vocabulary, ability to comprehend complex syntax, reading rate, and comprehension.

ESLA 282 Writing and Research for Academia

5 hours. The goal of this course is facility in the conventions of academic writing in English, including the effective use of complex sentence structure, essay organization, academic vocabulary, and source material. Students develop research skills using library sources and effectively integrate findings into research essays by appropriately summarizing, paraphrasing, quoting, and citing sources.

ESLA 283 Speech and Listening for Academia

3 hours. This course builds fluency, grammatical and pronunciation accuracy, academic vocabulary, competence in classroom discourse, and oral presentation skills, as well as listening comprehension and note-taking skills for various styles of academic lectures and discussions.

ESLA 285 Selected Topics

3 hours. Occasional special courses chosen to fit the needs and interests of students interested in teaching English as a second language.

ESLA 295 Writing Tutorial

1 hour. Students in their first semester after completing the ELI and new students who score between 500 and 550 on the paper-based TOEFL, between 173 and 213 on the computer-based TOEFL, or between 61 and 79 on the Internet-based TOEFL meet individually with a faculty member to improve their ability to write in English and to develop more effective study strategies. Pass/No Pass.

ESLA 485 Selected Topics

3 hours. Occasional special courses chosen to fit the needs and interests of students interested in teaching English as a second language.

FINC

FINC 250 Personal Financial Planning for Professionals

3 hours. In this course, we will cover Topics 1-21 of the CFP Board Principal Knowledge Topics. Areas of focus will include: the financial planning process, the client/planner relationship, communication and counseling, personal financial statements, cash flow management and financing strategies, time value of money, economic concepts, financial institution regulation, consumer laws, and CFP Board's Code of Ethics, Rules of Conduct, Practice Standards and Disciplinary Procedures. Prerequisites: BUSN 120 Personal Finance, ACCT 271 Principles of Financial Accounting, BUSN 240 Statistics for Business and Economics and ECON 211 Principles of Macroeconomics.

FINC 260 Business Finance

3 hours. An introduction to the finance function of a business entity. Specific topics to be studied include capital budgeting, cost of capital determination, sources of financing, leverage and its effect on the profits and risk of business, and managing the asset mix and capital structure of a business. Prerequisites: ACCT 271 Principles of Financial Accounting, ACCT 272 Principles of Managerial Accounting (may also be a co-requisite), ECON 211 Principles of Macroeconomics and college level statistics course 200 level or higher. Students who've taken PSYC 240 or SOCI 340 must also complete MATH 150 or higher, or have a SAT math score of 620 or higher or have an ACT score of 28 or higher.

FINC 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

FINC 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

FINC 300 Intermediate Financial Management

3 hours. This course is a second level financial management course that provides more depth in the study of the analysis of financial statements, working capital management, and obtaining credit. Students will determine the cost of capital of a firm and apply its use in capital budgeting and asset valuation. Prerequisite: FINC 260 Business Finance.

FINC 310 Insurance Planning and Risk Management

3 hours. In this course, we will cover Topics 22 – 32 of the CFP Board Principal Knowledge Topics. Areas of focus will include: principles of risk and insurance, risk exposure, health insurance, disability insurance, long-term care insurance, annuities, life insurance, taxation, business insurance, needs analysis, policy selection, property and casualty insurance. Prerequisites: FINC 250 Personal Financial Planning for Professionals.

FINC 320 Income Tax Planning

3 hours. 3 hours In this course, we will cover Topics 42 – 51 of the CFP Board Principal Knowledge Topics. Areas of focus will include: tax law fundamentals, compliance, tax calculations, taxation of business entities, trust and estate tax, alternative minimum tax, tax reduction techniques, property transactions, passive activity and at-risk rules, tax implications of special circumstances, charitable contributions and deductions. Prerequisites: FINC 250 Personal Financial Planning for Professionals.

FINC 330 Estate Planning

3 hours. In this course, we will cover Topics 63 – 72 of the CFP Board Principal Knowledge Topics. Areas of focus will include: property titling, transferring property, documents, gift and estate tax compliance, estate liquidity, trusts, marital deductions, intra-family transfer, postmortem estate planning. Prerequisites: FINC 250 Personal Financial Planning for Professionals and FINC 320 Income Tax Planning.

FINC 340 Financial Markets and Institutions

3 hours. This is an exploration of financial markets and institutions. The course will examine the role of depository institutions, insurance companies, investment banks and other financial intermediaries in the global economy. Topics include recent developments in financial markets and in the regulatory environment of these markets and institutions. Prerequisites: ECON 211 Principles of Macroeconomics, ECON 212 Principles of Microeconomics and FINC 260 Business Finance.

FINC 450 Investment Planning

3 hours. In this course, we will cover Topics 33 – 41 of the CFP Board Principal Knowledge Topics. Areas of focus will include: characteristics, uses and taxation of investment vehicles, types of investment risk, measures of investment returns, asset allocation and diversification, bond and stock valuation, portfolio development and analysis, investment strategies, and alternative investments. Prerequisites: FINC 250 Personal Financial Planning for Professionals, FINC 320 Income Tax Planning and FINC 260 Business Finance.

FINC 460 Financial Analysis and Strategy

3 hours. This course will emphasize financial forecasting, modeling, and simulation to determine the impact of management decisions on profitability, financial position, and cash flows of the firm. It will also focus on the analysis of risk and return, risk management, and capital structure. Prerequisite: FINC 300 Intermediate Financial Management.

FINC 470 Retirement Planning

3 hours. In this course, we will cover Topics 52 – 62 of the CFP Board Principal Knowledge Topics. Areas of focus will include: retirement needs analysis, Social Security, Medicare, Medicaid, retirement plans, plan rules, tax advantages, regulatory considerations, distribution rules, retirement strategies, and business succession planning. Prerequisites: FINC 320 Income Tax Planning and FINC 450 Investment Planning (may also be a co-requisite).

FINC 475 Field Experience

1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies. Pass/No Pass.

FINC 485 Selected Topics in Finance

1-4 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

FINC 490 Seminar in Finance

3 hours. This seminar will focus on current issues and developments in the field of finance. Prerequisites: FINC 300 Intermediate Financial Management and senior standing.

FINC 491 Personal Finance Planning Capstone

3 hours. In this course, we will cover all 72 topics of the CFP Board Principal Knowledge. Topics. We will tie together the concepts by constructing a financial

plan. The focus of this course is on case study application. Areas of focus will include: cash flow and financial situation, income tax evaluation, education funding evaluation, retirement evaluation, risk management/insurance evaluation, estate planning evaluation, and plan construction and communication. Prerequisites: FINC 310 Insurance Planning and Risk Management, FINC 330 Estate Planning, FINC 470 Retirement Planning, and FINC 450 Investment Planning.

FINC 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

FREN

FREN 101 Introductory French

4 hours. An integrated introductory study of the French language designed to develop basic speaking, listening, reading, and writing skills. Students will also be introduced to the cultures of the francophone world. Our three 65-minute class sessions per week include lab time.

FREN 102 Introductory French

4 hours. An integrated introductory study of the French language designed to develop basic speaking, listening, reading, and writing skills. Students will also be introduced to the cultures of the francophone world. Our three 65-minute class sessions per week include lab time. Prerequisite: FREN 101 Introductory French I or placement by exam.

FREN 201 Intermediate French

4 hours. A systematic approach to the study of French with extensive practice in speaking and writing. Three class sessions and one laboratory per week. Prerequisite: FREN 102 Introductory French II or placement by exam.

FREN 202 Intermediate French

4 hours. A systematic approach to the study of French with extensive practice in speaking and writing. Three class sessions and one laboratory per week. Prerequisite: FREN 201 Intermediate French I or placement by exam.

FREN 275 Field Experience

1-10 hours. Supervised experience in a situation demanding extensive use of French. Admission and credit hours determined by instructor. Pass/No Pass.

FREN 285 Selected Topics

2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

FREN 295 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

FREN 301 Intermediate/Advanced French

4 hours. A thorough review of French to develop an intermediate proficiency in the language. Activities include reading authentic texts, writing short essays, and developing conversational skills. Three class sessions and one laboratory per week. Prerequisite: FREN 202 Intermediate French II or placement by exam.

FREN 302 Intermediate/Advanced French

4 hours. A thorough review of French to develop an intermediate proficiency in the language. Activities include reading authentic texts, writing short essays, and developing conversational skills. Three class sessions and one laboratory per week. Prerequisite: FREN 301 Intermediate/Advanced French I or placement by exam.

FREN 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures.

(Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

FREN 475 Field Experience

1-10 hours. Supervised experience in a situation demanding extensive use of French. Admission and credit hours determined by instructor. Pass/No Pass.

FREN 485 Selected Topics

2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

FREN 490 Study Abroad

12-16 hours. A one-semester overseas experience. Students take university courses while living abroad in France. All programs of study subject to the approval of the French faculty and the director of overseas study. Prerequisite: application, completion of FREN 302 Intermediate/Advance French II, and junior status or above.

FREN 495 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GBSN

GBSN 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GBSN 300 Global Business

3 hours. The importance of thinking globally and understanding the legal, technological, political and economic differences that affect business practice are explored through readings and projects. The focus is on the global changes that are impacting national sovereignty, regionalization, and the balance of economic and political power.

Prerequisites: ECON 211 Principles of Macroeconomics and MGMT 260 Principles of Management.

GBSN 340 Comparative Economic Systems

3 hours. A survey of the major economic systems, including the underlying ideological foundations and institutional arrangements. The major theoretical aspects of various types of systems are covered in terms of political economy and their central organizational features. Special attention is given to changes and developments in the former Soviet Union and Eastern Europe. The European Union is covered in depth along with the major Asian economies of China and Japan. Offered at the International Business Institute.

GBSN 399 Cross-Cultural Study

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

GBSN 460 International Trade and Finance

3 hours. A survey of the analytical and institutional aspects of international trade and finance. The historical and contextual elements are the foundation for the examination of current theoretical and empirical approaches to international economic and financial relations. Major areas of emphasis include international finance, international trade, and regional economic integration. Special attention is also given to the issues of globalization and the problems of economic development. Offered at the International Business Institute.

GBSN 468 English Communication & American Cross-Cultural Adaptation

3 hours. This is a writing and research capstone class for international students completing their first year at George Fox University in the 3+1+1 MBA program. This course provides a platform for the student to complete a formal, academic research thesis in English by selecting a research topic, developing a research plan, researching and identifying supporting materials, conducting original research related to the U.S. business environment and completing the final written thesis and presentation.

Prerequisite: For students in Certificate in Cross-Border Cultural Competency program

GBSN 469 Cross-Border Research Thesis

3 hours. This is a writing and research capstone class for international students completing their first year at George Fox University in the 3+1+1 MBA program. This

course provides a platform for the student to complete a formal, academic research thesis in English by selecting a research topic, developing a research plan, researching and identifying supporting materials, conducting original research related to the U.S. business environment and completing the final written thesis and presentation. Prerequisite: For students in Certificate in Cross-Border Cultural Competency program

GBSN 470 Global Strategy

3 hours. This course provides an overview of the field of strategic global business and its central concerns in order to develop an understanding of the global dynamics of an industry as well as the competitive position of a given firm within that industry and the underlying international market forces that shape competitive strategy. The course will focus on global strategy frameworks and review applied and theoretical fields within the discipline. Cross-cultural understanding, adaptation and communication is explored as a critical component for successful global strategy efforts. The course includes a 2-3 week study abroad component in an international setting. Additional course fee is required. Prerequisite: MGMT 260 Principles of Management

GBSN 475 Field Experience

1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies. Pass/No Pass.

GBSN 480 Global Business Strategy

3 hours. This course is intended to integrate the field experiences and presentations by guest faculty and practitioners in the area of international business management with the reading and academic work including the recent developments and literature in this field. Students will be expected to prepare analytical reports on the various firms and institutions visited on the field seminar. Major topics covered in this course include: the role of the multinational firm in the global economy; international and global business strategy; cultural adaptation and organizational behavior in the global firm. The discussion of ethical values and issues in global management will also be included in this course as well as in the other courses. Offered at the International Business Institute.

GBSN 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GEED

GEED 130 First Year Seminar

1 hour. Members of the entire entering freshman class select a small seminar-style topical course for the first ten weeks of their first semester, meeting weekly with an advisor and a returning student peer advisor. Selected topics and issues introduce students comfortably to the academic and social life of the university community. Required of all first-time freshmen. Pass/Fail.

GEED 170 Freshman Honors Seminar

1 hour. Members of the entering freshman class who are invited to apply for honors at admission, and whose applications are accepted, take this seminar in the middle five weeks of fall semester. Students are introduced to the interdisciplinary pursuit of knowledge at the university level, examining a current public issue from a wide variety of disciplinary perspectives, using creative class activities and assignments. Students who earn an excellent rating are eligible to continue in the University Scholars program. Pass/No Pass. Prerequisite: admission as an incoming freshman to the University Scholars program.

GEED 271 Honors Colloquium

1 hour. Investigation of a variety of issues and subjects from a broad interdisciplinary perspective, through readings, discussions, creative activities, excursions, and written projects. Typically team-taught by faculty from different disciplines, over the course of a year the student uses the methods and frames of reference of nearly every discipline in the liberal arts curriculum to learn about several engaging topics. Class activities are designed to prepare students to do interdisciplinary University Scholars projects during their junior year. Pass/No Pass. Prerequisite: admission to the University Scholars program and at least sophomore status.

GEED 272 Honors Colloquium

1 hour. Investigation of a variety of issues and subjects from a broad interdisciplinary perspective, through readings, discussions, creative activities, excursions, and written projects. Typically team-taught by faculty from different disciplines, over the course of a year the student uses the methods and frames of reference of nearly every discipline in the liberal arts curriculum to learn about several engaging topics. Class activities are designed to prepare students to do interdisciplinary University Scholars projects during their junior year. Pass/No Pass. Prerequisite: GEED 271 Honors Colloquium I, admission to the University Scholars program, and at least sophomore status.

GEED 275 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

GEED 285 Selected Topics

1-3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GEED 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GEED 355 Cross-Cultural Experience - Domestic

2 hours. This course offers cross-cultural study designed to prepare and enhance the intercultural and international awareness of our campus community and to gain appreciation for various cultural perspectives different from the students' own. Each individual course includes in-depth study from a variety of perspectives, such as the fine arts, religion, language, natural or behavioral science or history. The course includes class meetings and is a requirement to participate in GEED 455, the actual travel to locations throughout the U.S.. Students must meet the Juniors Abroad eligibility requirements. Additional course fee is required.

GEED 365 Cross-Cultural Experience - International

2 hours. This course offers cross-cultural study designed to prepare and enhance the intercultural and international awareness of our campus community and to gain appreciation for various cultural perspectives different from the students' own. Each individual course includes in-depth study from a variety of perspectives, such as the fine arts, religion, language, natural or behavioral science or history. The course includes class meetings and is a requirement to participate in GEED 465, the actual travel to locations throughout the world. Students must meet the Juniors Abroad eligibility requirements. Additional course fee is required.

GEED 371 University Scholars Projects

1 hour. In conjunction with an upper-division course of the student's choosing, the student proposes a significant interdisciplinary research project. Once approved by the professor of the home course and the USP director, the student completes the project under the supervision of a senior peer mentor, publicly presents the project results, and submits the project to the undergraduate academic journal. Prerequisites: GEED 271 Honors Colloquium I, GEED 272 Honors Colloquium II, and permission of the USP director.

GEED 372 University Scholars Projects

1 hour. In conjunction with an upper-division course of the student's choosing, the student proposes a significant interdisciplinary research project. Once approved by the professor of the home course and the USP director, the student completes the project under the supervision of a senior peer mentor, publicly presents the project results, and submits the project to the undergraduate academic journal. Prerequisites: GEED 371 University Scholars Projects I, and permission of the USP director.

GEED 375 Cultural Field Experience

1-12 hours. Supervised experience in a cultural setting that contributes to the educational goals of the student. Pass/No Pass. Prerequisites: permission of advisor and the academic dean.

GEED 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

GEED 455 Cross-Cultural Experience - Domestic

1 hour. Students will travel on an approximately three week tours to various locations throughout the U.S.. This is an experiential course, which includes interaction with

the local culture through informal and formal contacts. (Offered May Term through the Juniors Abroad program.). Prerequisite: GEED 355

GEED 465 Cross-Cultural Experience - International

1 hour. Students will travel on an approximately three week tours to various locations throughout the world. This is an experiential course, which includes interaction with the local culture through informal and formal contacts. (Offered May Term through the Juniors Abroad program.). Prerequisite: GEED 365

GEED 471 Undergraduate Academic Journal I

1 hour. Service on the editorial committee, or as a senior editor, of the Undergraduate Academic Journal. Pass/No Pass. Prerequisites: GEED 371 University Scholars Projects I, GEED 372 University Scholars Projects II, and permission of the USP director.

GEED 472 Undergraduate Academic Journal II

1 hour. Service on the editorial committee, or as a senior editor, of the Undergraduate Academic Journal. Pass/No Pass. Prerequisites: GEED 471 Undergraduate Undergraduate Academic Journal I and permission of the USP director.

GEED 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

GEED 485 Selected Topics

1-3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GEED 490 Liberal Arts and Critical Issues

3 hours. An advanced liberal arts course integrating the varied strands of general education in a rich capstone integrative common experience. Students will be challenged to develop coherence in a Christian worldview, deepen their understanding of how we know truth about the world around us and our moral duty in it, practice taking an interdisciplinary approach to basic problems of human existence, and develop as potential Christ-like leaders in public issues. Specific topics to be explored vary from semester to semester.

GEED 495 Individualized study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GEOG

GEOG 200 Cultural Geography and Global Relations

3 hours. A study of the world's cultural regions developed through the themes of location, human environmental relationships, movement, and regions, with emphasis on the interrelatedness of culture, physical, economic, historical, and political geography in creating the dynamic cultural landscapes existing today. (Identical to INTL 200.)

GEOG 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GREK

GREK 201 Hellenistic Greek I

4 hours. A beginning course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read.

GREK 202 Hellenistic Greek II

4 hours. A beginning course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read. The second semester may be applied as biblical studies major credit. Prerequisite: GREK 201 Hellenistic Greek I.

GREK 285 Selected Topics

1-4 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GREK 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GREK 301 Hellenistic Greek III

4 hours. The continuation of the course in the Greek of the New Testament, including vocabulary, grammar, and special constructions. Emphasis is placed on readings from biblical texts and exegesis of those texts. Prerequisite: GREK 202 Hellenistic Greek II.

GREK 302 Hellenistic Greek IV

4 hours. The continuation of the course in the Greek of the New Testament, including vocabulary, grammar, and special constructions. Emphasis is placed on readings from biblical texts and exegesis of those texts. Prerequisite: GREK 301 Hellenistic Greek III.

GREK 485 Special Topics

1-4 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GREK 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

GRMN

GRMN 101 First Year German

4 hours. Offered on sufficient demand. A study of the structures of the German language, with practice in listening, speaking, reading, and writing. The cultures of Germany and German-speaking countries are presented as integral aspects of learning the language. Language lab listening and interaction are required.

GRMN 102 First Year German

4 hours. Offered on sufficient demand. A study of the structures of the German language, with practice in listening, speaking, reading, and writing. The cultures of Germany and German-speaking countries are presented as integral aspects of learning the language. Language lab listening and interaction are required. Prerequisite: GRMN 101 Introductory German I.

GRMN 201 Second Year German

4 hours. Offered on sufficient demand. A thorough review of German language structures, with extensive practice in reading and speaking. Students read short stories and articles and present oral and written reports. Language lab listening and interaction are required. Prerequisite: GRMN 102 Introductory German II or two years of high school German or by placement exam.

GRMN 202 Second Year German

4 hours. Offered on sufficient demand. A thorough review of German language structures, with extensive practice in reading and speaking. Students read short stories and articles and present oral and written reports. Language lab listening and interaction are required. Prerequisite: GRMN 201 Intermediate German I or two years of high school German or by placement exam.

GSCI

GSCI 130 Fundamentals Of Geology

3 hours. A systematic study of planet earth. The nature and origin of common minerals, rocks, and geologic structures. Topics will include geology of the earth's crust, plate tectonics, the geology of Oregon, ground water contamination, and geologic hazards such as volcanoes, earthquakes, erosion, landslides, and flooding. This course meets general education requirements and requires no previous knowledge of geology. Two lectures, one two-hour laboratory per week, and two day-long field trips.

GSCI 285 Selected Topics in General Science

3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

GSCI 485 Selected Topics

3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

HEBR

HEBR 201 Introduction to Biblical Hebrew I

4 hours. Students will be introduced to the basic vocabulary, grammar, and syntax of ancient Biblical Hebrew.

HEBR 202 Introduction to Biblical Hebrew II

4 hours. The language of ancient Israel as preserved in the Hebrew Bible is encountered inductively through the reading of Biblical texts. Students will continue to master basic vocabulary, grammar, and syntax of Hebrew. The second semester may be applied as biblical studies major credit. Prerequisite: HEBR 201 Introduction to Biblical Hebrew I

HEBR 295 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HEBR 495 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HHPA

HHPA 101 Basic Rock Climbing

1 hour. The purpose of this course is to provide basic instruction in rock-climbing techniques. The course will cover belaying, knots, top-roped climbing, rappelling, and basic anchor setup. Students will be exposed to both indoor and outdoor rock climbing. Additional course fee is required.

HHPA 103 Backpacking

1 hour. Students will learn the skills and knowledge necessary to prepare for and enjoy a safe wilderness camping experience. Specific skills include planning and packing for a trip, choosing appropriate equipment and clothing, preparing nutritious foods while in the outdoors, managing risk and appropriately responding in emergencies, reading maps, route finding, using a compass, and using the wilderness responsibly and courteously. Additional course fee is required.

HHPA 106 Badminton

1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in badminton.

HHPA 107 Dance Performance

1 hour. This beginning to intermediate Dance Performance class is designed primarily to introduce students to various forms of dance performance, which may include jazz, ballet, hip-hop, theme, etc. Students will view class performances of each group, and participate in individual, group and final class performances. Emphasis will be placed on student-created choreography, identifying correct body alignment, improving posture, balance, rhythm, coordination, timing, flexibility, strength, endurance, and performance.

HHPA 109 Ballroom Dancing

1 hour. Instruction in basic to intermediate steps and etiquette in ballroom dance including 6 count and 8 count swing, fox-trot, waltz, and tango.

HHPA 112 Fitness Walking

1 hour. Designed to provide students with an introductory experience, which has the potential to develop into a lifelong health/wellness activity. The student will become familiar with the contributions this regular activity can make toward development of improved fitness and a healthier lifestyle. A regular weekly walking routine and understanding of primary physiological and anatomical principles are significant by-products of the course.

HHPA 113 Pickleball

1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in the game of pickleball.

HHPA 114 Golf/Racquet Games

1 hour. This course is designed to develop the fundamental skills involved in the game of golf and racquet sports and to understand the rules and etiquette of each so as to prepare students to enjoy these games as lifelong activities.

HHPA 116 Golf

1 hour. Students will learn the basics of the game of golf including proper swing techniques, proper putting strategies, and the appropriate ways to conduct one's self on the golf course. Attention will be given to helping students learn to analyze themselves and to become lifelong students of the game. Additional course fee is required.

HHPA 119 Racquetball

1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in racquetball.

HHPA 120 Lifelong Fitness

2 hours. Students in this course will learn to think critically about their personal health and wellness in the context of Christian commitment. They will learn scientific principles of aerobic conditioning and weight training. Popular lifetime fitness activities will be introduced. Special emphasis will be placed on developing and maintaining lifestyle habits that optimize well-being. (May not be repeated for credit.)

HHPA 121 Core Fitness and Flexibility

1 hour. This is a beginning yoga, core and flexibility class with intermediate/advanced options given. The course will focus on basic postures, breathing, stretching, and relaxation.

HHPA 122 Survival Techniques

1 hour. At the end of the course the student will be able to justify the need for emergency preparedness; elaborate on the philosophical, psychological, and physiological aspects of survival; demonstrate the basic skills necessary to keeping alive in emergencies; and demonstrate ability to improvise in wilderness survival situations. Additional course fee is required.

HHPA 123 Skateboarding

1 hour. Students will engage in skateboarding or a similar discipline (roller blades, pro scooter), which can be performed on the Newberg cement skate park. Students will be able to progress at a pace that best suits their skill level. The Newberg skate park is a world class cement park with a very friendly layout for all levels. Participation is a major portion of the course, and skill will be assessed on individual progression.

HHPA 125 Adapted Activities

1 hour. This course is designed for those students who are unable to take regular physical education classes due to the presence of disabilities or illness. Programs are individualized to meet the abilities and needs of those involved. Those who must follow a physician's prescribed program of exercise will be assisted in that program.

HHPA 126 Skiing/Snowboarding

1 hour. This course is designed to improve your skiing or snowboarding. You will learn new skills, improve your fitness, enjoy new challenges on the mountain, and gain a renewed appreciation of God's gifts and creation. Specific objectives depend on your level of expertise and will be explained by your professional ski/snowboard instructor.

HHPA 127 Soccer/Floor Hockey

1 hour. This course will use lectures, practice sessions, and tournament play to acquaint students with the fundamental techniques and strategies of floor hockey and soccer. Floor hockey will be played during the first seven weeks of the semester, soccer during the last seven weeks.

HHPA 129 Tennis

1 hour. Instruction in skills, techniques, rules, and strategies in double and singles. Students will recognize the value of tennis as a potential lifetime recreational activity.

HHPA 130 Aquatics

1 hour. This course is intended to introduce the basics of swimming and is appropriate for all ranges of swimming aptitude. This course will teach the five basic swimming strokes along with other aquatic activities and will prepare students who intend

to pursue certification as a lifeguard and/or obtain the Water Safety Instructor's certification. Additional course fee is required.

HPA 133 Volleyball

1 hour. The student will be instructed in the fundamental techniques, strategies, drills, and understanding of the game of volleyball.

HPA 134 Wallyball

1 hour. This course will use lectures, practice sessions, video analysis, and tournament play to acquaint students with the fundamental techniques and strategies of wallyball.

HPA 136 Weight Training

1 hour. This course is designed to teach the physiological principles and training techniques involved in effective strength training and to apply those principles in a 13-week strength-conditioning program.

HPA 137 Aerobic-Step Exercise

1 hour. This course is designed primarily to introduce students to the basic principles and techniques of step exercise, to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step, jump rope and dynaband/strength equipment, and proper warm-up and cool-down stretches. Additional course fee is required.

HPA 138 Aerobic-Cross Training

1 hour. This course is designed primarily to introduce students to the basic principles and techniques of cross-training exercise and to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step, cardio, and strength equipment, and proper warm-up and cool-down stretches.

HPA 139 Advanced Raquetball

1 hour. This class is designed to take students past the beginning level (e.g. HHPA 119/319 Racquetball) in basic skills and help them learn to play at a more skillful and competitive level.

HPA 140 Self-Defense

1 hour. Twan-Chi means fellowship and is designed to teach students how to rationally respond to any situation in life with confidence, control, and protection. Various techniques of self-defense, as well as how to fall, roll, basic strikes, kicks, pressure points, and submission holds will be taught. Students will learn technique to control fear, anxiety, and their own body when involved in person-to-person contact.

HPA 145 Intercollegiate Athletics

1 hour. 2 credits toward the physical education general education requirement may be earned in athletics, but no more than 1 hour in any one sport may be counted toward the requirement.

HPA 185 Selected Topics

1 hour. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HPA 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HPHA 301 Basic Rock Climbing

1 hour. The purpose of this course is to provide basic instruction in rock-climbing techniques. The course will cover belaying, knots, top-roped climbing, rappelling, and basic anchor setup. Students will be exposed to both indoor and outdoor rock climbing. Additional course fee is required.

HPHA 303 Backpacking

1 hour. Students will learn the skills and knowledge necessary to prepare for and enjoy a safe wilderness camping experience. Specific skills include planning and packing for a trip, choosing appropriate equipment and clothing, preparing nutritious foods while in the outdoors, managing risk and appropriately responding in emergencies, reading maps, route finding, using a compass, and using the wilderness responsibly and courteously. Additional course fee is required.

HPHA 304 Bicycle Fitness

1 hour. Each student will have the opportunity for a general education of the use of the bicycle as a tool for recreation, fitness, and a general knowledge of the essential aspects of maintenance and repair.

HPHA 306 Badminton

1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in badminton.

HPHA 307 Dance Performance

1 hour. This beginning to intermediate Dance Performance class is designed primarily to introduce students to various forms of dance performance, which may include jazz, ballet, hip-hop, theme, etc. Students will view class performances of each group, and participate in individual, group and final class performances. Emphasis will be placed on student-created choreography, identifying correct body alignment, improving posture, balance, rhythm, coordination, timing, flexibility, strength, endurance, and performance.

HPHA 309 Ballroom Dancing

1 hour. Instruction in basic to intermediate steps and etiquette in ballroom dance including 6 count and 8 count swing, fox-trot, waltz, and tango.

HPHA 312 Fitness Walking

1 hour. Designed to provide students with an introductory experience, which has the potential to develop into a lifelong health/wellness activity. The student will become familiar with the contributions this regular activity can make toward development of improved fitness and a healthier lifestyle. A regular weekly walking routine and understanding of primary physiological and anatomical principles are significant by-products of the course.

HPHA 313 Pickleball

1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in the game of pickleball.

HPHA 314 Golf/Racquet Games

1 hour. This course is designed to develop the fundamental skills involved in the game of golf and racquet sports and to understand the rules and etiquette of each so as to prepare students to enjoy these games as lifelong activities.

HHPA 316 Golf

1 hour. Students will learn the basics of the game of golf including proper swing techniques, proper putting strategies, and the appropriate ways to conduct one's self on the golf course. Attention will be given to helping students learn to analyze themselves and to become lifelong students of the game. Additional course fee is required.

HHPA 319 Racquetball

1 hour. This course is designed to give students knowledge and competency in the areas of skill, rules, etiquette, and strategy in racquetball.

HHPA 321 Core Fitness and Flexibility

1 hour. This is a beginning yoga, core and flexibility class with intermediate/advanced options given. The course will focus on basic postures, breathing, stretching, and relaxation. Prerequisite: HHPA 121.

HHPA 322 Survival Techniques

1 hour. At the end of the course the student will be able to justify the need for emergency preparedness; elaborate on the philosophical, psychological, and physiological aspects of survival; demonstrate the basic skills necessary to keeping alive in emergencies; and demonstrate ability to improvise in wilderness survival situations. Additional course fee is required.

HHPA 323 Skateboarding

1 hour. Students will engage in skateboarding or a similar discipline(roller blades, pro scooter), which can be performed on the Newberg cement skate park. Students will be able to progress at a pace that best suits their skill level. The Newberg skate park is a world class cement park with a very friendly layout for all levels. Participation is a major portion of the course, and skill will be assessed on individual progression. Prerequisite: HHPA 123.

HHPA 325 Adapted Activities

1 hour. This course is designed for those students who are unable to take regular physical education classes due to the presence of disabilities or illness. Programs are individualized to meet the abilities and needs of those involved. Those who must follow a physician's prescribed program of exercise will be assisted in that program.

HHPA 326 Skiing/Snowboarding

1 hour. This course is designed to improve your skiing or snowboarding. You will learn new skills, improve your fitness, enjoy new challenges on the mountain, and gain a renewed appreciation of God's gifts and creation. Specific objectives depend on your level of expertise and will be explained by your professional ski/snowboard instructor.

HHPA 327 Soccer/Floor Hockey

1 hour. This course will use lectures, practice sessions, and tournament play to acquaint students with the fundamental techniques and strategies of floor hockey and soccer. Floor hockey will be played during the first seven weeks of the semester, soccer during the last seven weeks.

HHPA 329 Tennis

1 hour. Instruction in skills, techniques, rules, and strategies in double and singles. Students will recognize the value of tennis as a potential lifetime recreational activity.

HHPA 330 Aquatics

1 hour. This course is intended to introduce the basics of swimming and is appropriate for all ranges of swimming aptitude. This course will teach the five basic swimming strokes along with other aquatic activities and will prepare students who intend

to pursue certification as a lifeguard and/or obtain the Water Safety Instructor's certification. Additional course fee is required.

HPA 333 Volleyball

1 hour. The student will be instructed in the fundamental techniques, strategies, drills, and understanding of the game of volleyball.

HPA 334 Wallyball

1 hour. This course will use lectures, practice sessions, video analysis, and tournament play to acquaint students with the fundamental techniques and strategies of wallyball.

HPA 336 Weight Training

1 hour. This course is designed to teach the physiological principles and training techniques involved in effective strength training and to apply those principles in a 13-week strength-conditioning program.

HPA 337 Aerobic-Step Exercise

1 hour. This course is designed primarily to introduce students to the basic principles and techniques of step exercise, to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step, jump rope and dynaband/strength equipment, and proper warm-up and cool-down stretches. Additional course fee is required.

HPA 338 Aerobic-Cross Training

1 hour. This course is designed primarily to introduce students to the basic principles and techniques of cross-training exercise and to improve cardiovascular endurance, muscular strength and endurance, flexibility, agility, and motor skill performance. Emphasis will be placed upon identifying correct body alignment and postural deviations, proper use of step, cardio, and strength equipment, and proper warm-up and cool-down stretches.

HPA 339 Advanced Raquetball

1 hour. This class is designed to take students past the beginning level (e.g. HHPA 119/319 Racquetball) in basic skills and help them learn to play at a more skillful and competitive level.

HPA 340 Self-Defense

1 hour. Twan-Chi means fellowship and is designed to teach students how to rationally respond to any situation in life with confidence, control, and protection. Various techniques of self-defense, as well as how to fall, roll, basic strikes, kicks, pressure points, and submission holds will be taught. Students will learn technique to control fear, anxiety, and their own body when involved in person-to-person contact.

HPA 345 Intercollegiate Athletics

1 hour. 2 credits toward the physical education general education requirement may be earned in athletics, but no more than 1 hour in any one sport may be counted toward the requirement.

HPA 385 Selected Topics

1 hour. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HPA 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes

class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

HPA 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HHPE

HHPE 200 History and Principles of Physical Education

2 hours. A survey of the history and development of physical education and athletics in America. The course will also emphasize fundamental principles of physical education and sport.

HHPE 221 Basketball/Golf

1 hour. Intermediate to advanced instruction in skills, teaching techniques, rules, and strategy for basketball and golf.

HHPE 222 Field Sports

1 hour. Beginning to intermediate instruction in skills, teaching techniques, rules, and strategy. Flag football, soccer, speedball, and korfbal are emphasized.

HHPE 223 Tumbling/Gymnastics

1 hour. Beginning to intermediate instruction in skills, teaching techniques, spotting, and safety factors involved in tumbling and gymnastics.

HHPE 226 Tennis/Volleyball

1 hour. Intermediate to advanced skills and techniques, with emphasis on learning how to teach basic skills and drills. Tournament organization and game administration are included.

HHPE 228 Principles of Conditioning

2 hours. Instruction in concepts related to developing and maintaining physical fitness and movement skills.

HHPE 275 Field Experience

1-6 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

HHPE 285 Selected Topics

2-3 hours. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HHPE 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HHPE 300 Coaching Theory and Practice

2 hours. The development of a philosophy of coaching. Emphasizes the psychological, sociological, and technical aspects of athletic participation.

HHPE 301 Sports Psychology

2 hours. This course is designed to enhance the understanding of how personality, self-esteem, goal setting and behavior can influence performance and performance preparation. It is also designed to provide future teachers/coaches with coping skills and observational techniques which will serve them well in coaching as well as in managerial settings.

HHPE 310 Coaching Basketball

2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed. Prerequisite: instructor's permission.

HHPE 320 Coaching Baseball/Softball

2 hours. A study of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.

HHPE 330 Coaching Soccer

2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed. Prerequisite: instructor's permission.

HHPE 340 Coaching Track

2 hours. A study of the techniques and principles of coaching each event. The organization of practice sessions and the strategy for - and administration of - track meets are discussed. Prerequisites: varsity experience and instructor's permission.

HHPE 350 Coaching Volleyball

2 hours. An analysis of systems of play, principles of offense and defense, and strategies of the game. Organization of practice sessions, administration of games, and techniques of scouting are stressed.

HHPE 360 Organization and Administration of Sport and Physical Education

2 hours. Instruction in the planning and implementation of health, physical education and athletics programs. Course content will include curriculum design, budget formation, facility design, and coordination. Professional conduct and ethics will be stressed.

HHPE 363 Organization and Administration of Athletic Training

2 hours. This course exposes students to the organization and administration in athletic training including management, leadership, legalities, historical perspectives as well as in-depth exploration of the requirements set forth by federal, national and state organizations governing the practices of athletic trainers. This course is offered every other year.

HHPE 364 Psychosocial Intervention and Referral in Athletic Training

3 hours. Examines the knowledge, skills, and values that the entry-level certified athletic trainer must possess to recognize and intervene, and when appropriate, refer to a recognized professional; the socio-cultural, mental, emotional, and physical behaviors of athletes and others involved in physical activity.

HHPE 366 General Medical Conditions in Athletic Training

2 hours. Examines the knowledge, skills, and values that the entry-level certified athletic trainer must possess to recognize, treat, and refer, when appropriate, the general medical conditions and disabilities of athletes and others involved in physical activity. Students will be introduced and exposed to various health care providers.

HHPE 370 Camp Programming and Counseling

2 hours. A camping overview: its historical development and philosophy. Types of camps, program activities, teaching-learning models, leadership recruitment, and training - with special emphasis on methods of camp counseling - are covered. Overnight campout is required. Additional course fee is required. (Identical to HHPE 370.)

HHPE 374 Athletic Training Practicum I

1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Prerequisites: HHPE 390 Care and Prevention of Athletic Injuries, HLTH 233 Responding to Emergencies, acceptance into the Athletic Training Education Program, and permission. Additional course fee is required.

HHPE 375 Athletic Training Practicum II

1 hour. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Prerequisites: HHPE 374 Athletic Training Practicum I.

HHPE 376 Athletic Training Practicum III

3 hours. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Prerequisite: HHPE 375 Athletic Training Practicum II.

HHPE 377 Athletic Training Practicum IV

3 hours. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Prerequisites: HHPE 376 Athletic Training Practicum III.

HHPE 378 Athletic Training Practicum V

3 hours. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Prerequisites: HHPE 377 Athletic Training Practicum IV.

HHPE 379 Athletic Training Practicum VI

3 hours. Supervised experience in an athletic training environment. Additional study required, with an emphasis on athletic training techniques and athletic injury management. Prerequisites: HHPE 378 Athletic Training Practicum V.

HHPE 380 Experiential Recreational Leadership

3 hours. A study of theory and practice of experiential leadership in adventure and recreation education/programming. Leadership styles, techniques, methods, and practices will be the core subjects taught in this highly experiential class involving an outdoor lab component. Additional course fee required.

HHPE 384 Pharmacology in Athletic Training

1 hour. An emphasis on the knowledge, skills, and values required of an athletic trainer on pharmacologic applications, including indications, contraindications, precautions, interactions, and governing regulations relevant to the treatment of injuries and illnesses of the physically active. Prerequisites: BIOL 221 Human Anatomy and Physiology I and BIOL 222 Human Anatomy and Physiology II.

HHPE 390 Care and Prevention of Athletic Injuries

3 hours. An introductory survey of athletic training. Emphasis will be on terminology, injury prevention, evaluation, treatment, and emergency care procedures. Common taping techniques also will be presented. Additional course fee is required.

HHPE 394 Kinesiology

3 hours. Application of human anatomy and physical laws to the explanation of movement activities. Special emphasis is given to detailed analysis of various sports activities. Prerequisites: BIOL 221 Human Anatomy and Physiology I and BIOL 222 Human Anatomy and Physiology II.

HHPE 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Offered in May Term. Students must meet eligibility requirements.) Additional course fee is required.

HHPE 401 Physical Examination of the Lower Extremities in Athletic Training

3 hours. In-depth study of the lower extremities including skills of injury evaluation, physical examination and treatment. One 1-hour lab per week. Pre-requisite: Athletic Training major or instructor permission.

HHPE 402 Physical Exam of the Spine of the Spine and Upper Extremities in Athletic Training

3 hours. In-depth study of the spine and upper extremities including skills of injury evaluation, physical examination and treatment. One 1-hour lab per week. Pre-requisite: Athletic Training major or instructor permission.

HHPE 410 Teaching Physical Education

2 hours. Development of competence, style, and confidence in teaching physical education for the physical education major. Emphasis is given to analysis of objectives, unit and lesson planning, instruction methods, means of evaluation, and class procedures and control.

HHPE 413 Therapeutic Exercise

2 hours. Course will examine exercise procedures as the first modality for rehabilitation of the injured athlete. Also examines the role of exercise for the prevention of injuries, as well as rehabilitation to all major joints and musculature of the body. Includes a lab for practice. Prerequisites: HHPE 390 Care and Prevention of Athletic Injuries and Athletic Training major or instructor permission.

HHPE 414 Therapeutic Modalities

2 hours. Course will examine the role of therapeutic modalities including thermal modalities, electrical agents, deep heating agents, and mechanical modalities in the rehabilitation of the injured athlete. Includes a lab for practice. Prerequisites: HHPE 390 Care and Prevention of Athletic Injuries and Athletic Training major or instructor permission.

HHPE 420 Exercise Prescription

3 hours. Application of exercise testing and prescription of individuals ranging from athletes to special populations. Includes aspects of nutrition, disease, training methods, and exercise responses. Prerequisites: BIOL 221 Human Anatomy and Physiology I and BIOL 222 Human Anatomy and Physiology II. Additional course fee required.

HHPE 430 Exercise Physiology

3 hours. Application of principles of physiology to physical activity. Special attention is given to the effect of exercise on the various body systems and the construction of training programs. The laboratory component explores the assessment of resting metabolic rate, energy expenditure, body composition, respiratory function, maximum oxygen uptake, lactate threshold, strength and flexibility, and other physiological responses to exercise. Three lectures and one laboratory per week. Prerequisites: BIOL 221 Human Anatomy and Physiology I and BIOL 222 Human Anatomy and Physiology II.

HHPE 440 Camp Administration

2 hours. Designed to develop a basic understanding of programming, business, and leadership at an administrative level. A weekend camping trip is required. Additional course fee is required. (Identical to HHPE 440.)

HHPE 460 Physical Education for the Exceptional Student

3 hours. This course considers the nature and etiology of disability and handicapping conditions, as well as the implications for and development of appropriate physical education programs.

HHPE 470 Motor Development and Motor-Skill Learning

3 hours. A study of the development of motor skills. Psychological principles of learning are applied to motor-skill learning. A review of research and an inquiry into the effect of various conditions on the learning and performance of motor skills from early childhood through the adult years.

HHPE 475 HHP Field Experience

3-6 hours. 3-6 hours. A supervised experience in the discipline, including internships and practica required for professional programs. This experience must have an on-site supervisor and a departmental instructor overseeing, designing and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

HHPE 480 Tests and Measurements in Physical Education

2 hours. Emphasis is given to methods of evaluation in programs of physical education. Testing procedures, standard tests, physical examinations, and evaluation activities are discussed.

HHPE 485 Selected Topics

2-3 hours. A seminar dealing with various topics, as announced, that represent current faculty interests and competencies.

HHPE 490 Senior Seminar

1 hour. Research of current issues in health, physical education, and athletics. Senior thesis and public presentation of thesis is required.

HHPE 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HIST

HIST 110 Western Civilization to 1648

3 hours. A survey of Western civilization from the ancient world through the Reformation and religious wars, including attention to the origins and development of religious, political, and economic life and ideas.

HIST 120 Western Civilization from 1648

3 hours. A survey of European civilization from early modern Europe to the present day. Special attention is given to the political, economic, and religious developments that continue to influence European society and its role in world events.

HIST 151 United States to 1865

3 hours. The first half of a two-semester survey of American history. The course surveys historical development from human origins in North America through the founding of the United States to the end of the Civil War.

HIST 152 United States from 1865

3 hours. The second half of a two-semester survey of American history. The course surveys historical development in the United States beginning with Reconstruction of the nation during and after the Civil War and continuing through contemporary times.

HIST 250 Latin America

3 hours. Latin American countries from colonial times to the present, with an emphasis on the conditions that have led to the crises of recent years.

HIST 280 Introduction to Political Philosophy

3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to HIST 280 and PHIL 280.)

HIST 285 Selected Topics

3 hours. Occasional special courses scheduled to fit the interests of students and faculty and the needs of a shifting society. A course in presidential elections is offered in presidential-election years (2012, 2016).

HIST 290 Introduction to Historical Studies

3 hours. An introduction to the basic skills, methods, and resources of historical scholarship; the types of historical literature and scholarship; Christian foundations for historical interpretation; historical schools of interpretation; and the uses of historical scholarship.

HIST 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HIST 300 American Political Theory

3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to HIST 300 and PHIL 300.)

HIST 330 The American West

3 hours. Examines the relationship of the American West to the rest of the nation through its exploration, settlement, and development. Special attention is given to the Pacific Northwest and to the Native American experience.

HIST 331 England to 1688

3 hours. The growth of the English nation from Roman times to the Glorious Revolution, with special attention given to constitutional and religious development.

HIST 332 England from 1688

3 hours. England in the modern age, emphasizing the response of its institutions to its rapidly changing role in the European and world communities.

HIST 340 History of the Middle East

3 hours. Explores the political, economic, social, and religious developments in the Middle East from the ancient to the modern era, with emphasis on the latter period.

HIST 343 History of Southern Africa

3 hours. A study of the history of southern Africa from about 1500 to the present with particular attention to the native groups of the region, Dutch colonization and British imperialism, and relations between diverse ethnic groups in the last two centuries.

HIST 360 Modern Russia

3 hours. A study of 20th- and 21st-century Russia and other former Soviet republics, with emphasis on their current significance in the world and the factors in their history that brought the Revolution of 1917 and the collapse of the Soviet Union.

HIST 363 War and Conscience in the United States

3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the American Indians, the world wars, Vietnam War, and the Gulf War; a study of the official position major church bodies have taken in regard to war; and the experiences of individuals who refused to fight. (Identical to PSCI 420.)

HIST 370 Modern China and Japan

3 hours. Political and cultural developments of China and Japan.

HIST 380 The African-American Experience in the United States

3 hours. A study of Africans in an America dominated by those of European descent.

HIST 390 Peace Research

1-3 hours. Directed research on peace subjects, both current and historical. Students will normally write a major research paper. (Identical to PSCI 390.)

HIST 393 Introduction to Public History

3 hours. This course will introduce students to the various fields within public history, the ethical and methodological standards, and give students the opportunity to work on a public history project.

HIST 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Students must meet eligibility requirements.) Additional course fee is required.

HIST 401 Christianity in History I

3 hours. The development of Christianity from its appearance within the Greco-Roman world through the medieval period, and its influence as a base for culture in the West. (Identical to HIST 401.)

HIST 402 Christianity in History II

3 hours. Christianity's development from the dawn of the Protestant Reformation through its global spread during the modern era, observing its historical context and relationship to the surrounding cultures. (Identical to RELI 402.)

HIST 410 Classical Greece and Rome

3 hours. A survey of classical Greece and Rome from 1600 B.C. through the collapse of the Roman Empire in the West in the fifth century A.D. Political, economic, and social developments are stressed, including the rise of Christianity and the early church.

HIST 419 Medieval Europe

3 hours. A survey of medieval Europe from the collapse of the Roman Empire in 500 to the rise of Modern Europe in 1500. Special attention is given to the important political, economic, and religious developments of this period.

HIST 421 Europe: Enlightenment to 1890

3 hours. European political, economic, cultural, and intellectual developments from the late 17th century through 1890.

HIST 422 Europe: 1890-Present

3 hours. Europe in the 20th and 21st centuries, with emphasis on the upheavals of the two world wars and the status of the European states today.

HIST 456 Classics of American History

3 hours. This course is a seminar that allows students to study some of the great works of American history. In addition to mastering the historical knowledge the books provide, students will develop an advanced understanding of both the social and political climate within which the books were written, and the historiographical traditions that informed the interpretations.

HIST 457 The Colonial Experience, 1607-1763

3 hours. Studies Colonial life in the British colonies of North America from the founding of Jamestown to the end of the French and Indian War. Emphasis is placed on religious conflict and development, the growing sense of a unique American identity, and the importance of community as opposed to the distant British government in the lives of everyday citizens.

HIST 458 The Making of the American Republic, 1754-1825

3 hours. Studies the world of the founders. Emphasis is placed on the ideological, social, and political milieu that gave birth to the American Revolution and Constitution. The course also considers the radical changes in American society the revolution set in motion.

HIST 459 The Era of the Civil War, 1825-1898

3 hours. Examines the causes of the Civil War. In addition, slavery, Christianity, the westward movement, the struggle for power in Congress, Abraham Lincoln, the rise of Northern industrialism, and Southern society are all studied in their own right and in relation to the conflict some historians call "the crossroads of our being."

HIST 468 America in the Time of the Two World Wars, 1898-1945

3 hours. Considers how economic growth and then depression challenged the American government and people to redefine the American Dream and to discover new avenues

for achieving it. At the same time, Europe confronted America with two world wars, which also changed the nature of American society and the role of the United States in the world.

HIST 469 Recent America, 1945-Present

3 hours. Studies America as the leader of the Western world during the Cold War and how that role impacted the social, economic, intellectual, and political currents in American life. This course also examines the rise of interest groups, the increased political prominence of ethnic and women's groups, and the impact of these groups on American culture.

HIST 470 Renaissance and Reformation

3 hours. The political, social, and religious life of Europe from the beginning of the Renaissance to the Peace of Westphalia, with emphasis on the various reform movements and their impact on the modern world.

HIST 475 Field Experience

2-10 hours. Supervised experiences in museums, historical societies, and government agencies. Pass/No Pass. Prerequisites: upper-division history majors, and by permission.

HIST 485 Selected Topics

3 hours. Occasional special courses scheduled to fit the interests of students and faculty and the needs of a shifting society. A course in presidential elections is offered in presidential-election years (2012, 2016).

HIST 490 History Seminar

3 hours. The course examines the methods professional historians use in writing history and the main currents in American historiography through the reading of America's most influential historians. Working closely with the instructor, students are required to write a research paper based on primary sources. The paper will be permanently retained by the history faculty.

HIST 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HLTH

HLTH 210 Drug Education

2 hours. Issues concerned with the use, misuse, and abuse of selected pharmacological agents. Social, psychological, physical, and moral implications are considered. Particular consideration is given to ergogenic aids in athletics.

HLTH 223 Sociology of Families

3 hours. A study of marriage and the family from a sociological perspective, including historical, cross-cultural, and economic backgrounds. A Christian faith perspective will emphasize the worth of people, the importance of the family as a place of nurture, and the gift of marriage. (Identical to HLTH 223.)

HLTH 230 First Aid and Safety

1 hour. Instruction in first aid and safety and leading to certification in first aid and cardiopulmonary resuscitation (CPR). Additional course fee is required.

HLTH 240 Stress Management

3 hours. A study of causes, symptoms, and results of stress. Introduces practical techniques to alleviate stress, promote relaxation, and encourage a healthy lifestyle.

HLTH 285 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

HLTH 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HLTH 300 Nutrition

3 hours. A study of nutrients present in food and their relation to the nutritive needs of the human body. Emphasis on the young adult, along with discussion of contemporary nutrition-related topics of national and global concern. Computer-assisted dietary analysis included. (Identical to HLTH 300.)

HLTH 320 Contemporary Health Issues

3 hours. A study of our nation's current health problems and concerns. Emphasis on health consumerism and current trends, diseases, the sanctity of life, and fitness. Goal is to develop an educated view on current health issues.

HLTH 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Students must meet eligibility requirements.) Additional course fee is required.

HLTH 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

HLTH 485 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

HLTH 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HNRS

HNRS 150 Athens & Jerusalem

6 hours. A Socratic seminar on the greatest works of the Ancient World, with an emphasis on literature and philosophy from ancient Greece and Mesopotamia, the Old Testament, and key touchpoints with the ancient Far East. Additional course fee required.

HNRS 190 Rome & the Early Church

6 hours. A Socratic seminar on the rise of Christianity in its Classical Roman context, featuring key texts of Roman literature and philosophy, New Testament gospels and epistles, writings of the Early Church Fathers, and Hindu and Buddhist scriptures.

HNRS 250 The Medieval World

6 hours. A Socratic seminar on the greatest works of Medieval literature, philosophy, history, and theology, with a focus on the mystical and scholastic streams of Medieval Christian thought, as well as the monotheistic traditions of Judaism and Islam. Additional course fee required.

HNRS 290 Renaissance & Reformation

6 hours. A Socratic seminar on prominent works of European literature, theology, political science, and philosophy during the Early Modern era. Emphasis on Reformation theology, Renaissance literature, as well as key touchpoints with the Scientific Revolution and New World colonization. Additional course fee required.

HNRS 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HNRS 350 The Rise of Modernity

6 hours. A Socratic seminar on great texts from the 18-19th centuries, with an emphasis on intellectual and political upheavals of this era in the realms of politics, philosophy, theology, literature, and science. Areas of focus include the Enlightenment, the American Revolution, Romanticism, Darwinism, Industrialism, and Marxism, as well as developments in Christian thought and practice. Additional course fee required.

HNRS 450 The Twentieth Century

6 hours. A Socratic seminar on great texts from the 20th century, with an emphasis on major intellectual and political movements of this century in the realms of philosophy, theology, literature, and social science. Areas of focus include totalitarianism, existentialism, feminism, postcolonialism, and Christian responses to postmodernity. Additional course fee required.

HNRS 490 Senior Synthesis

3 hours. Capstone course of the William Penn Honors Program. Students write a substantive, original thesis that responds to a central question of contemporary relevance. Students must synthesize multiple voices from across the honors curriculum and make a compelling longform argument. Students also participate in small-group collaboration and give an oral defense of their theses. Additional course fee required.

HNRS 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

HUMA

HUMA 205 Philosophy and Literature

3 hours. This course introduces students to literature and philosophy as methods of human inquiry. Special focus is given to close reading of texts with an attention to literary form and on thinking and living ethically. Topics and texts vary by section.

HUMA 290 Art, Beauty, and Truth

3 hours. This interdisciplinary, general education course centers its intellectual and artistic queries around the enduring question: “How do the arts reveal truth and celebrate beauty in their cultural context?” The course will introduce students to the manner in which the disciplines of art, music and theatre encounter the world with specific attention to their relationship to truth and beauty in both the Renaissance and Postmodern worlds.

INTD

INTD 131 CADD I

3 hours. This course is an introduction to computer-aided design and drafting using Autodesk AutoCAD. Students will use CADD software effectively to create computer-generated plans for commercial space while reviewing Life Safety, ANSI, ADA and regional building codes related to their projects. Additional course fee is required.

INTD 200 Interior Foundations

3 hours. This is the first studio in a sequential series of interior courses in which students apply their skills, knowledge and understanding of the design process to living environments. Emphasis is placed on the interrelationship of design elements and principles, spatial organization and sequencing, and conceptual problem solving in three-dimensional space. Open to all students. Additional course fee required.

INTD 210 Textiles Foundations

3 hours. An introductory course offering a foundation for textile applications in interior design. The course introduces the student to textiles for interior design including fiber properties, manufacture of yarns, fabric identification, fabrication methods, finishes and end-use application for different types of interiors. Students will learn testing procedures, performance classification, safety issues, and related fire codes. Oral and written project presentations and library research required. Additional course fee is required.

INTD 212 Materials and Resources

3 hours. Study of materials used in the built environment with emphasis on the interior. Students develop knowledge of material characteristic, selection, application, installation methods, and industry regulations. Students produce product specifications following Master Specification standards. Additional course fee is required.

INTD 213 Lighting for Interiors

1.5-3 hours. This course studies the interior aspects of lighting design and application. Emphasis is placed on lighting in the human environment and its effects on the occupants. Students will select lighting fixtures, lamps, and produce specifications. Solutions are applied in studio projects. Additional course fee is required. Prerequisite: INTD 200 Interior Foundations

INTD 220 Architectural Rendering

3 hours. A study of 3D graphics, including isometrics and axonometrics. Students render perspective-based drawing in a variety of mediums including watercolor, color markers, pastels and colored pencils as they explore drawing as a tool for communicating visual information, developing presentations, analyzing space, and expanding their design vocabulary. Additional course fee is required.

INTD 300 Space Planning and Programming

3 hours. This course builds on concepts and theories introduced in Interior Foundations and guides students through the complexities of the space planning process addressing both function and aesthetics. Students will complete a series of assignments increasing in size and difficulty designed to develop space planning skills. Additional course fee is required. Prerequisite: INTD 200 Interior Foundations and ARTS 111 Drawing I

INTD 311 Detailing Interiors

3 hours. This course will study methods and materials for interior construction. Students will create details and specify materials for interior components, including walls, floors, ceilings, glazing, millwork and cabinetry. Additional course fee is required. Prerequisite: INTD 200 Interior Foundations

INTD 320 Informed Interior I: Building Systems

2 hours. A review of the building constructions systems and their relationship to the interior environment. Specific topics include plumbing, thermal, HVAC, electrical, communications, security and acoustics. Additional course fee is required.

Prerequisites: INTD 200 Lighting for Interiors, INTD 311 Detailing Interiors, and INTD 131 CADD I

INTD 321 Informed Interior II: Building Codes

2 hours. This course examines the codes and regulations for the built environments with emphasis on their application in commercial interiors. Students are required to determine occupancy types and loads, means of egress, compartmentalization, and a variety of fire protection systems and their locations. Students apply ADA regulations. Other major industry specific regulations are also discussed. Additional course fee is required. Prerequisite: INTD 200 Interior Foundations.

INTD 331 CADD II

1.5 hours. A continuation of CADD I. This course includes advanced CAD techniques and introduces Building Information Modeling (BIM) software for 3D modeling interior design. Students learn how to render spaces and use creative suite techniques from Photoshop and InDesign for portfolio purposes. Additional course fee is required.

Prerequisite: INTD 131 CADD I

INTD 360 History of Art, Architecture and Furniture

3 hours. A survey of the history of decorative arts of western civilization concentrating on architecture, interior design and furniture from mid 1800s to 20th Century and today. Additional course fee required.

INTD 411 Residential Design Studio

3 hours. A study of the design process involved in a residential space. Students refine space planning skills and develop furniture, finishes, fabric, materials and source knowledge with respect to the residential environment. Students learn and apply residential kitchen and bath principles to projects while working on construction documentation. LEED, Life Safety, Fire, ANSI, ADA and regional building codes related to their projects will be reviewed. Additional course fee is required. Prerequisite: INTD 300 Space Planning and Programming. Corequisite: INTD 431 Digital Construction Documentation Lab I.

INTD 412 Commercial Design Studio

3 hours. A study of the design process involved in a commercial space. Students refine space planning skills and develop furniture, finishes, fabric, materials and source knowledge with respect to the commercial environment. Students learn and apply commercial kitchen and bath principles to projects while working on construction documentation. LEED, Life Safety, Fire, ANSI, ADA, and regional building codes related to their projects will be reviewed. Additional course fee is required. Prerequisite: INTD 300 Space Planning and Programming. Corequisite: INTD 432 Digital Construction Documentation Lab II

INTD 431 Digital Construction Documentation Lab I

1 hour. To be taken alongside residential studio, students use AutoCAD to prepare a formal set of digital drawings used as documentation for a project. Corequisite: INTD 411 Residential Design Studio

INTD 432 Digital Construction Documentation Lab II

1 hour. To be taken alongside commercial studio, students use AutoCAD to prepare a formal set of digital drawings used as documentation for a project. Corequisite: INTD 412 Commercial Design Studio.

INTD 475 Interior Design Internship

1-3 hours. Students will intern with a commercial concern under the direction of a professional. The student will assume major responsibilities for planning and making arrangements for this experience in consultation with their instructor and will present a written proposal outlining such arrangements for their instructor's approval mid-way through the semester preceding enrollment. Students will meet with the instructor periodically throughout the internship.

INTD 492 Interior Design Professional Practice

2 hours. Business management and ethics relating to the interior design profession will be studied in this course. Billing methods, estimating, purchasing, specification writing and client-designer relationships are reviewed. Students also complete a mock NCIDQ exam. Prerequisite: junior standing

INTL

INTL 200 Cultural Geography and Global Relations

3 hours. A study of the world's cultural regions developed through the themes of location, human environmental relationships, movement, and regions, with emphasis on the interrelatedness of culture, physical, economic, historical, and political geography in creating the dynamic cultural landscapes existing today. (Identical to INTL 200.)

INTL 220 Intercultural Communication

3 hours. This covers communication as it affects and is affected by language and culture. Topics include contextualized use of communication within speech communities, intercultural effectiveness, cultural communication theory, competent intercultural experiences in co-cultures (ethnic, gender, intergenerational, deaf, etc.) and global cultural groups. A student may not earn credit for both the lower-division and upper-division versions of this course.

INTL 230 Introduction to International Affairs

3 hours. An introduction to the core issues and problems that affect the entire world, including threats to security such as war and terrorism, the rise of globalization, the persistence of inequality between rich and poor countries, and the degradation of the environment. (Identical to INTL 230.)

INTL 260 Global Awareness Proseminar

1 hour. This course will provide a foundation in the intellectual and social abilities required for international experiences. The primary goals of this course are to develop global awareness and cross-cultural competencies that will provide students with the practical skills necessary for effective off-campus study abroad and internationally-focused internships.

INTL 275 Field Experience

1-10 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

INTL 285 Selected Topics

1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

INTL 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

INTL 303 International Conflict and Peace

3 hours. Why do wars and conflicts occur and how do we prevent these? This course considers the causes of global insecurity (from wars between countries to transnational terrorism to genocide) and examines the various approaches to their resolution, including the creation of international institutions and military alliances. Special emphasis will be placed on the role of religion in global political conflict.

INTL 310 Cultural Anthropology

3 hours. A comparative study of world societies and their ways of life.

INTL 330 Politics of the Developing World

3 hours. This course covers the main issues faced by developing countries in Africa, the Middle East, Latin America, and Asia. Special attention is given to economic development and the impact of globalization on these nations. (PSCI 330 and INTL 330 are identical courses)

INTL 370 International Economic Development

3 hours. This course introduces students to causes and consequences of 'the wealth of nations.' Students will learn theories of economic growth and poverty alleviation. Topics to be covered include: globalization, education, international trade, holistic conceptions of development, and the role of institutions. (Identical to INTL 370 and SOCI 370.)

Prerequisite: ECON 212 Principles of Microeconomics

INTL 375 Cultural Immersion

8 hours. Supervised experiences in a non-American culture. Pass/No Pass.

Prerequisite: upper-division international studies majors or minors, and by permission.

INTL 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Students must meet eligibility requirements.) Additional course fee is required.

INTL 420 Intercultural Communication

3 hours. This covers communication as it affects and is affected by language and culture. Topics include contextualized use of communication within speech communities, intercultural effectiveness, cultural communication theory, competent intercultural experiences in co-cultures (ethnic, gender, intergenerational, deaf, etc.) and global cultural groups. A student may not earn credit for both the lower-division and upper-division versions of this course.

INTL 440 World Religions

3 hours. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Islam, Hinduism, and contemporary kinds of alternative religion. (Identical to INTL 440.)

INTL 475 Internship

3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

INTL 485 Selected Topics

1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

INTL 490 International Studies Senior Seminar

3 hours. Required of senior international studies majors, the course emphasizes the investigation of theoretical and current applications of interdisciplinary research in international studies. Students with a significant interest in international issues are welcome, with the consent of the instructor. A research paper based upon primary source materials is the main assignment of the course.

INTL 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

JOUR

JOUR 200 Persuasive Communication

3 hours. A presentation of key principles of persuasion as they are reflected in typical organizational communication contexts. Focus on developing a planning sequence that will function as a practical guide for designing, executing, and evaluating communication events. Students will be expected to develop a "real world" communication event, e.g., publicity campaign, speech, newsletter. Prerequisite: COMM 100 Introduction to Communication or equivalent.

JOUR 210 Practical Grammar and Editing

3 hours. This course helps those who want to understand and to be able to explain to others what can be done to make writing correct, clear, and precise. Focuses on constructing, editing, and correcting sentences and paragraphs. This is not a remedial course.

JOUR 230 Introduction to Journalism

3 hours. A course designed to provide fundamental knowledge and experience in reporting, writing, and editing news for the print media. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

JOUR 240 Introduction to Public Relations

3 hours. A course designed to introduce and develop a clear concept of public relations as a communication profession. Topics to be covered include the function of public relations in both public and private enterprises; the process of planning and implementing a public relations communication campaign; techniques for communicating with various publics; and the laws and ethics governing the practice of public relations. (Identical to JOUR 240/COMM 240)

JOUR 275 Field Experience

1-3 hours. Experience in supervised field situations, generally off campus, involving extensive communication activity. Admission to course and amount of credit determined by the faculty supervisor. Pass/No Pass.

JOUR 285 Selected Topics

1-3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors and students.

JOUR 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

JOUR 310 Professional Writing

3 hours. This course explores trends in media convergence, focusing as well on the ways reporters, editors, and designers create stories for the web. Particular emphasis will be on web-based story design, the coordination of text and art, and the creation of stories for a variety of new media outlets. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

JOUR 330 Magazine and Feature Writing

3 hours. A workshop approach to writing feature articles and other shorter nonfiction forms for periodicals. Student-produced material is submitted to various publications as part of course expectations. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

JOUR 340 Media Law and Ethics

3 hours. Considers the rights and responsibilities of print and broadcast journalists, and explores media law and ethics in light of the First Amendment and legal philosophy. Prerequisite: JOUR 230 Introduction to Journalism

JOUR 470 Journalism II

3 hours. Students hone journalistic skills in areas such as interviewing techniques, cultivating sources, investigative reporting, and editing and layout. Prerequisite: WRIT 230/JOUR 230 Introduction to Journalism or instructor's permission.

JOUR 475 Field Experience

1-3 hours. Experience in supervised field situations, generally off campus, involving extensive communication activity. Admission to course and amount of credit determined by the faculty supervisor. Pass/No Pass.

JOUR 480 Senior Capstone: Ethical and Spiritual Dimensions of Communication

3 hours. Designed to integrate skills and concepts from communication course work with ethical and spiritual principles through readings, written assignments, and assessment instruments. Students will complete portfolios that will include work samples and department exit exams along with a statement of what it means to be a Christian communicator. A service component may be included as part of the course.

JOUR 485 Selected Topics

1-3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors and students.

JOUR 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LANG

LANG 275 Field Experience

1-12 hours. Experience in supervised field situations, generally off campus, involving extensive communication activity. Admission to course and amount of credit determined by the faculty supervisor. Pass/No Pass.

LANG 285 Selected Topics

1-3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

LANG 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LANG 340 General and Cultural Linguistics

3 hours. A study of the nature of verbal symbols as they function in communication. The course will include phonetic transcription, semantics, modern grammatical theories, history of the English language, and modern English dialects.

LANG 343 Second Language Acquisition

3 hours. This course familiarizes students with linguistic, psychological, cognitive, and socio-cultural aspects of second (or additional) language acquisition and related language acquisition theories. Students reflect on their own language learning and acquisition experiences in light of these theories and consider implications for the teaching and learning of additional languages. Offered every other year.

LANG 350 Introduction to TESOL

3 hours. An introduction to the theory and practice of teaching English (or any language) to non-native speakers. Topics include principles of language teaching, communicative and interactive approaches, teaching methods and techniques for improving different language skills, lesson planning, materials selection and adaptation, testing, cultural issues, teaching English as Christian witness, and working with English-as-a-second-language students in a mainstream class. Students relate theory to practice in a school- or community-based practicum.

LANG 475 Field Experience

1-12 hours. Experience in supervised field situations, generally off campus, involving extensive communication activity. Admission to course and amount of credit determined by the faculty supervisor. Pass/No Pass.

LANG 485 Selected Topics

1-3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

LANG 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LEAD

LEAD 110 Introduction to Leadership

1 hour. This course is designed to provide students with an introduction to leadership by focusing on what it means to be a good leader. Emphasis in the course is on the practice of leadership, providing ample opportunity for reflection, observation and skill development. The class will examine such topics as the nature of leadership, recognizing leadership traits, creating a vision, setting a tone, handling conflict, overcoming obstacles, and leadership ethics. Students will be encouraged to identify leadership roles they can fill on campus. Pass/no pass

LEAD 235 Residence Life Seminar

1 hour. An integrative seminar linking residence-life leadership, course work, and group exercises. Examines the educational implications of residence life by giving attention to what causes dissonance in the lives of undergraduates, how community is created, and how leaders function as models on a college campus. Pass/No Pass. Prerequisite: current member of the residence life staff.

LEAD 260 Leadership Advance I

1 hour. Designed as an introduction to leadership for first and second year students. Required for incoming Miller Scholarship recipients. Delivered in either a weekly class format or through a series of workshops. Students also engage in an outdoor education experience. Possible topics include leadership styles and theories, followership, decision making, team building, communication, discovering personal vocation and identifying spiritual gifts. Pass/No Pass.

LEAD 270 Leadership Advance II

1 hour. Designed as an introduction to student leadership for first and second year students. Required for incoming Miller Scholarship recipients. Students engage in a community service project as well as a capstone project assisting a local organization. May include workshop or class sessions.

LEAD 275 Leadership Experience

1-3 hours. Designed to provide students with an opportunity to develop their leadership skills through work or volunteer experience. All leadership experience proposals subject to the approval of the leadership studies program directors. Possible placements might include leading a church youth group, directing a social-concern project, managing the campus radio station, or serving as a member of student government. Pass/No Pass.

LEAD 285 Selected Topics

1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty. Pass/No Pass.

LEAD 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LEAD 360 Student Leader Development I

1 hour. Provides a common core of leadership knowledge and skill for students in formal roles and programs on campus (i. e. student government, spiritual life, Act VI scholars, residence life). Focus on the development of effective and innovative leaders through self-understanding, skill development, relational competence and service.

Possible topics include community building and group dynamics, emergency response, identifying individual strengths, diversity, decision-making, dealing with conflict and setting leadership priorities. Pass/No Pass.

LEAD 370 Student Leader Development II

1 hour. Provides a common core of leadership knowledge and skill for students in formal roles and programs on campus (i. e. student government, spiritual life, Act VI scholars, residence life). Focus on the development of effective and innovative leaders through self-understanding, skill development, relational competence and service. Possible topics include community building and group dynamics, emergency response, identifying individual strengths, diversity, decision-making, dealing with conflict and setting leadership priorities. Fall Semester. Pass/No Pass. Prerequisite: LEAD 360 Student Leader Development I.

LEAD 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Students must meet eligibility requirements.) Additional course fee is required.

LEAD 435 Advanced Residence Life Seminar

1 hour. An integrative seminar linking residence-life leadership, course work, and group exercises. Examines the educational implications of residence life by giving attention to what causes dissonance in the lives of undergraduates, how community is created, and how leaders function as models on a college campus. Pass/No Pass. Prerequisite: current member of the residence life staff.

LEAD 475 Leadership Experience

1-3 hours. Designed to provide students with an opportunity to develop their leadership skills through work or volunteer experience. All leadership experience proposals subject to the approval of the leadership studies program directors. Possible placements might include leading a church youth group, directing a social-concern project, managing the campus radio station, or serving as a member of student government. Pass/No Pass.

LEAD 485 Selected Topics

1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty. Pass/No Pass.

LEAD 491 Leadership Seminar I

1 hour. Integrative seminar linking leadership practicum, course work, and readings. Topics include servant leadership, transformational leadership, and leadership development. Occasional retreats and other off-campus activities. Pass/No Pass.

LEAD 492 Leadership Seminar II

1 hour. Integrative seminar linking leadership practicum, course work, and readings. Topics include servant leadership, transformational leadership, and leadership development. Occasional retreats and other off-campus activities. Pass/No Pass.

LEAD 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LIBA

LIBA 100 Knowing and Being Known

3 hours. The first course in the liberal arts core, Knowing and Being Known, introduces students to the history and mission of George Fox University and the values and habits of mind central to a liberal arts education. The course presses each student to engage in metacognitive analysis of his or her own learning style and goals. Additional course fee required.

LIBA 285 Selected Topics

1-3 hours. A variety of topics may be offered to meet the special needs and interests of students, faculty, or visiting professors.

LIBA 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LIBA 400 Engaging Christ in Transition

3 hours. This course, taken by all George Fox students in their final year of study, provides an opportunity for students to reflect on the liberal arts learning of their undergraduate experience and to prepare for the transition to the next stage of their lives. The course allows students to wrestle with challenging texts and focus on discerning vocation while planning for their own continuing spiritual formation and engagement with the wider community after college. Prerequisite: Senior standing or permission of LIBA 400 director.

LIBA 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LITR

LITR 100 Introduction to Literature

3 hours. Explores the major genres, themes, and elements of literature.

LITR 180 Studies in Literature

3 hours. Introduces important concepts in the study of literature. Students will learn techniques in close reading, and will read, discuss, and produce written analyses of a variety of literary texts in order to better understand historical, political, cultural, and formalistic aspects of literary works.

LITR 220 Great American Writers

3 hours. A brief survey of American literary history, combined with a close study of some of the most engaging works and writers in the tradition.

LITR 236 Ancient World Literature

3 hours. Introduces and examines as literary texts significant works of world mythologies. Readings stress those cross-cultural themes and literary forms exemplifying the ideals, values, and concerns that have shaped our shared human condition. The course surveys myths from African, Middle Eastern, Asian, Native American, Meso-American, Oceanic, and European literatures. Universal motifs and unique differences in these traditional sacred and secular stories are examined with an eye to understanding how myths underpin cultural, community, and individual values, ethical teachings, and spiritual experiences that continue to inform the world's cultures.

LITR 237 World Literature, Medieval to Modern

3 hours. Considers works written in Africa, the Middle East, Asia, Oceania, Europe, and the Americas during the medieval and early modern periods. Students examine culturally defining texts that reflect both the uniqueness of culture and the universality of literary themes. Students read a sample of texts written between the medieval period and 1900. The focus is on texts that continue to be important to the culture they represent, such as *The Tale of Genji*, *Journey to the West*, *The Thousand and One Nights*, *The Divine Comedy*, and *Shakuntala*.

LITR 238 Contemporary World Literature

3 hours. Examines contemporary literatures across the world in order to explore both the similarities and differences in literary styles and themes. Because so much current non-Western literature is influenced by Western literature, culture, and values, students will consider historical background, including colonial, post-colonial, or political readings of writers such as Chinua Achebe, Gabriel García Márquez, Nadine Gordimer, Lu Xūn, and Jamaica Kincaid.

LITR 240 Understanding Drama

3 hours. A study of significant plays from the classical period to the present, both as literary works and staged productions, the goal being a deeper understanding and appreciation of drama as a symbolic form. Primary focus is on literary values, with attention also given to the constraints and interpretations embodied in the staging, acting, and directing of a play. (Identical to THEA 240.)

LITR 270 Great British Writers

3 hours. An introduction to British literary history, combined with a close study of some of the most engaging works and writers in the tradition.

LITR 275 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

LITR 280 Literary Foundations of Women's Studies

3 hours. Introduces students to literature that presents the groundwork for women's studies and considers a selection of contemporary texts that apply that perspective. Reading will include significant novels, poems, and essays that demonstrate the history of women's contribution to literature, culture, and Christianity.

LITR 285 Selected Topics

3 hours. An occasional course that allows professors and students to investigate interesting literary byways. Past selections have included studies in science fiction, the literature of human rights, the short story, and the works of particular authors.

LITR 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

LITR 326 American Literature to 1865

3 hours. A selective look at early American literature, from 1607 to 1865. Examines themes, movements, and writers who influenced and were influenced by the growth of the new nation. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 327 American Literature, 1865-1914

3 hours. A selective look at the literature of the United States, from 1865 to 1914. Particular attention is given to the masters of realistic and naturalistic fiction, and to the poets who most clearly influenced modern poetry. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 328 American Literature, 1914-Present

3 hours. A selective look at the literature of the United States, from 1914 to the present. Particular attention is given to the masterworks of Modernism, especially to those that have proven influential in contemporary literature. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 335 Advanced Studies in American Literature

3 hours. An advanced study of selected authors and topics in American Literature. May be repeated with permission of instructor. Prerequisite: Students must have completed any two of the following literature sequence courses: LITR 236, LITR 237, LITR 238, LITR 326, LITR 327, LITR 328, LITR 376, LITR 377, LITR 378

LITR 350 Literary Criticism

3 hours. Introduces students to various schools of literary criticism. Students will practice using different critical approaches to writing about literature. Recommended for juniors and seniors. Prerequisite: WRIT 200 Understanding Literature and 6 hours of literature courses or instructor's permission.

LITR 365 Advanced Studies in British Literature

3 hours. An advanced study of selected authors and topics in British Literature. May be repeated with permission of instructor. Prerequisite: Students must have completed any two of the following literature sequence courses: LITR 236, LITR 237, LITR 238, LITR 326, LITR 327, LITR 328, LITR 376, LITR 377, LITR 378

LITR 376 British Literature to 1660

3 hours. A selective look at the literature of the British Isles, from the earliest texts through 1660. Particular attention is given to the Anglo-Saxon, Medieval, and Renaissance periods. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 377 British Literature, 1660-1830

3 hours. A selective look at the literature of the British Isles during the Restoration, the Neoclassical, and the Romantic periods. Particular attention is given to the emergence of the novel and the poets who most clearly influenced the continuing development of poetry. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 378 British Literature, 1830-Present

3 hours. A selective look at the literature of the British Isles during the Victorian, Modern, and Contemporary periods. Particular attention is given to the literature of doubt and faith, the development of the novel, and post-Colonial issues. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 379 Shakespeare

3 hours. A consideration of the life and works of the poet/playwright and the sociopolitical history of the Renaissance. The course examines the sonnets and a selection of the plays from each genre: comedy, tragedy, history, and tragicomedy. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 380 Gender Theory

3 hours. This course is designed expose students to the ways that gender theory, including feminism, womanism, anti-sexism, and masculinism, has developed over the years, and how that theory is applied to literature.

LITR 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Students must meet eligibility requirements.) Additional course fee is required.

LITR 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

LITR 480 International Women's Voices

3 hours. Considers contemporary writings from women around the world. Students analyze these literary texts, examine the cultures they represent, and keep apprised of

current events related to women. Prerequisite: HUMA 205 Philosophy and Literature, any 100 or 200 level LITR course or equivalent, enrollment in the William Penn Honors Program, or instructor permission.

LITR 485 Selected Topics

3 hours. An occasional course that allows professors and students to investigate interesting literary byways. Past selections have included studies in science fiction, the literature of human rights, the short story, and the works of particular authors.

LITR 490 Senior Experience

3 hours. Students will choose to research and write a senior thesis, working with a faculty member in their area of interest; or will complete a service project in a community organization, in a school classroom, or in another identified literacy program; or will complete a professional internship; or will create a portfolio of written work. Prerequisite: Senior Standing

LITR 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MAND

MAND 101 Introductory Mandarin I

3 hours. 3 hours. An integrated introductory study of Mandarin Chinese. Listening, speaking, reading and writing are all integral to learning the language. Cultural aspects of China are also presented as essential components. Three class hours per week.

MAND 102 Introductory Mandarin II

3 hours. 3 hours. An integrated introductory study of Mandarin Chinese. Listening, speaking, reading and writing are all integral to learning the language. Cultural aspects of China are also presented as essential components. At the end of MAND 102, students should have novice high proficiency as defined by the American Council of the Teaching of Foreign Languages (ACTFL). Three class hours per week.

MATH

MATH 095 Math Skills

1-3 hours. Individually designed mathematical training to meet the needs and goals of any individual student. The extent of this training will be determined through a testing process. Topics covered include basic math, elementary algebra, and intermediate algebra. This course does not fulfill general education requirements. This course is pre-college level and carries no credit toward degree requirements.

MATH 150 World of Math

3 hours. A liberal arts math course emphasizing applications of mathematical concepts in areas such as financial topics, probability and statistics, and uses spreadsheets as a mathematical tool.

MATH 180 College Algebra

3 hours. An algebra course designed for students who have a good background in high school algebra and are prepared to cover the major topics of algebra in more depth and breadth. Applications of algebra will be emphasized in this course. This course does not serve as a prerequisite for the calculus sequence. Prerequisite: high school algebra or equivalent.

MATH 190 Pre-Calculus Mathematics

4 hours. A course for students who are preparing to take calculus or other courses requiring a similar background. In addition to studying the topics found in a college algebra course, this course will focus on trigonometry and an introduction to exponential and logarithmic functions. Prerequisite: high school algebra or its equivalent. Students who have taken MATH 180 College Algebra may not take this course for credit.

MATH 201 Calculus I

4 hours. The class is a study of limits of functions, applications of derivatives, and an introduction to integration. Prerequisite: MATH 190 Precalculus Mathematics or equivalent.

MATH 202 Calculus II

4 hours. A study of differential and integral calculus for functions of one variable. Additional topics include polar coordinates, infinite series, and parametric equations. Prerequisite: MATH 201 Calculus I.

MATH 211 Foundations of Elementary Mathematics I

4 hours. This course is the first of two courses designed to engage elementary and middle school prospective teachers in the learning and development of the mathematical knowledge needed for teaching mathematics. It has a multi-dimensional focus on mathematical problem solving and reasoning with understanding of numbers and their properties through various representations, including algebraic and visual representations. Additional course fee required.

MATH 212 Foundations of Elementary Mathematics II

4 hours. This course is the second of two courses designed to engage elementary and middle school prospective teachers in the learning and development of the mathematical knowledge needed for teaching mathematics. Emphasis will be placed on nuanced mathematics content knowledge needed for teaching within the domains of algebra, statistics, probability, geometry, and measurement. Prerequisite: Completion of MATH 211 Foundations of Elementary Mathematics I.

MATH 240 Statistical Procedures

3 hours. An introduction to probability and statistics with content and application directed toward the natural and physical sciences. Topics to be covered include methods of describing data, probability, random variables and their distributions, estimation, hypothesis testing, linear regression, and correlation. Prerequisite: MATH 180 College Algebra or equivalent.

MATH 260 Discrete Mathematics

3 hours. An introduction to discrete mathematics. Topics covered include sets, functions, math induction, combinatorics, recurrence, graph theory, trees, and networks.

MATH 275 Field Experience

1 hour. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

MATH 285 Selected Topics

1 hour. A class with topics in mathematics chosen to fit special needs or interests of students, faculty, or visiting professors. Prerequisite: instructor's permission.

MATH 290 Introduction to Proofs

3 hours. This course is intended to facilitate a smooth transition from lower-level, computation-oriented math courses to upper-level, more theoretical courses. Topics include symbolic logic, methods of proof, and set theory. Prerequisite: MATH 201 Calculus I.

MATH 295 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MATH 301 Calculus III

3 hours. This course is an extension of MATH 201 and 202 Calculus I and II to functions of more than one variable. Topics include vectors, vector-valued functions, partial derivatives, and multiple integration. Prerequisite: MATH 202 Calculus II.

MATH 311 Differential Equations with Linear Algebra

4 hours. A study of the theory, methods of solution, and applications of ordinary differential equations and the techniques of linear algebra necessary to accomplish that study. Prerequisite: MATH 202 Calculus II.

MATH 312 Numerical Methods

3 hours. A study of numerical solutions of mathematical problems, including nonlinear equations, systems of linear equations, polynomial approximations, root finding, integration, and differential equations. Computer programs are written to solve these problems. (Identical to CSIS 300.) Prerequisites: MATH 311 Differential Equations with Linear Algebra and either CSIS 201 Introduction to Computer Science I or ENGR 152 Engineering Principles II.

MATH 330 Engineering Statistics

3 hours. Serves as an introduction to probability and statistics with content and application directed toward the engineering and science disciplines. Topics to be covered include methods of describing data, probability, random variables and their distributions, estimation, hypothesis testing, linear regression and correlation. Does not meet math major requirements. Prerequisite: MATH 202 Calculus II or equivalent.

MATH 331 Probability

3 hours. A study of sample spaces, combinatorial methods, discrete and continuous distributions, moment-generating functions, and the central limit theorem. Prerequisites: MATH 290 Introduction to Proofs and MATH 301 Calculus III.

MATH 332 Mathematical Statistics

3 hours. A study of statistical methods - including estimators, confidence intervals, tests of statistical hypotheses, and correlation analyses - from a theoretical point of view, including applications. Prerequisite: MATH 331 Probability.

MATH 340 Number Theory

3 hours. An introduction to the basic properties of whole numbers, including such topics as prime numbers, Euclid's algorithm, Fermat's Theorem, congruences, and Diophantine equations. The course will emphasize historical development of the relevant topics. Prerequisites: MATH 202 Calculus II and MATH 290 Introduction to Proofs.

MATH 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. (Students must meet eligibility requirements.) Additional course fee is required.

MATH 411 Advanced Linear Algebra

3 hours. A study of matrices and their properties and application, linear transformations, and vector spaces. Prerequisites: MATH 310 Differential Equations with Linear Algebra.

MATH 412 Algebraic Structures

3 hours. A study of groups, rings, integral domains, fields, polynomial rings, and algebraic number systems. Prerequisites: MATH 411 Advanced Linear Algebra.

MATH 421 Real Analysis I

3 hours. An introduction to the fundamental concepts in real analysis including limits, continuity, sequences, series, differentiation, and integration. Prerequisites: MATH 290 Introduction to Proofs and MATH 301 Calculus III.

MATH 422 Real Analysis II

3 hours. Class serves as a continued study of the fundamental concepts in real analysis including limits, continuity, sequences, series, differentiation, and integration. Prerequisite: MATH 421 Real Analysis I.

MATH 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

MATH 485 Selected Topics

1-3 hours. A class with topics in mathematics chosen to fit special needs or interests of students, faculty, or visiting professors. Prerequisite: instructor's permission.

MATH 490 Senior Seminar

2 hours. A seminar for junior and senior math majors to explore current topics selected by the instructor. Emphasis will be placed on significant student involvement in the classroom. Prerequisite: junior or senior status.

MATH 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MATH 585 Graduate Mathematics Courses for High School Teachers

2 hours. These courses focus on best-practice strategies and mathematics content related to teaching college credit mathematics courses in dual enrollment settings in high schools. Course offerings may only be offered once, or might be rotated on an every 2 to 3-year basis depending on interest. Prerequisite: On a per topic basis.

MGMT

MGMT 260 Principles of Management

3 hours. A study of the theory and practice of management. The course involves discussion and application of areas such as social responsibility, strategy, problem solving, communication, change, job performance, and financial/operational controls. Prerequisite or Co-requisite of BUSN 110 Introduction to Business

MGMT 285 Selected Topics in Management

1-4 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

MGMT 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MGMT 300 Leading and Managing People

3 hours. This course recognizes that managers are also called upon to be leaders. The differences between a leader and manager will be discussed with focus on effective leadership and management skills, philosophies and orientations. Prerequisite: MGMT 260 Principles of Management.

MGMT 440 International Management

3 hours. Managing and organizing global operations, with attention to both multinational corporations and nonprofit organizations. Consideration will be given to the strategy and structure of international business, the practices of international commerce, the challenges of living and working in other cultures, and career development in a global context. Prerequisite: MGMT 260 Principles of Management.

MGMT 450 Operations Management

3 hours. This course examines the basic principles of managing the production and distribution of goods and services. The course provides frameworks and tools to target and implement improvements in business processes. Prerequisites: MGMT 260 Principles of Management and college level statistics course 200 level or higher. Students who've taken PSYC 240 or SOCI 340 must also complete MATH 150 or higher, or have a SAT math score of 620 or higher or have an ACT score of 28 or higher.

MGMT 475 Field Experience

1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies.

MGMT 480 Organizational Behavior

3 hours. This course examines the complex and dynamic interactions of people and organizations in society. Particular focus will be on organizational theory, human perception, motivation, group dynamics, power, conflict, culture, leadership, organizational development, and managing change. Prerequisite: MGMT 260 Principles of Management.

MGMT 485 Selected Topics in Management

1-4 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

MGMT 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MKTG

MKTG 260 Principles of Marketing

3 hours. Study of the marketing concept, consumer demand and behavior, and marketing functions of the firm. The objective is to understand the development of marketing channels, products, prices, and promotion strategies. Prerequisite or Co-requisite of BUSN 110 Introduction to Business

MKTG 275 Field Experience

1-3 hours. Supervised experiences in marketing, businesses, nonprofit organizations and public agencies. Pass/No Pass.

MKTG 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

MKTG 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MKTG 300 Consumer Behavior

3 hours. This course considers how having things affects the lives of consumers and how possessions influence the way consumers feel about themselves and others. Models of consumer decision processes are introduced and the marketing implications of the various aspects of consumer behavior are examined. The course combines a balance of traditional and emerging ideas in consumer behavior focusing on local, pan-European and global scenarios. The impact of new technology, globalization, eclecticism, and postmodern perspectives are also considered. Prerequisite: MKTG 260 Principles of Marketing.

MKTG 340 Global Marketing

3 hours. This course will expose the student to marketing strategies and activities that enable organizations to be competitive in the global economy and market. This course will enable the student to understand how to target global markets and how to manage and lead in the global marketing effort. Students in this course will have the option of participating in a Juniors Abroad trip that will examine marketing in three different global markets. Prerequisite: MKTG 260 Principles of Marketing.

MKTG 360 Digital Marketing

3 hours. This course focuses on creating digital marketing strategies across disciplines including branding, design, usability, technology, IT development, search engine optimization, pay-per-click, link development, online reputation management, and social media marketing integration to drive commerce via viral adoption and engagement. Students will learn to understand how to conduct technical, business, and creative relationships with social media platform providers such as LinkedIn, You Tube, Facebook, Twitter, Pinterest and Foursquare. Prerequisite: MKTG 260 Principles of Marketing.

MKTG 420 Marketing Communications

3 hours. Integrated marketing communication (IMC) is a cross-functional process for creating profitable relationships with customers and publics by strategically controlling all messages sent to groups and encouraging dialogue. Students learn to integrate

marketing communication tools (e.g., advertising, public relations, sales promotion, event marketing, etc.) and media (e.g., television, radio, online, in-store) to advance an organization's success and brand equity. Prerequisites: MKTG 260 Principles of Marketing, MKTG 300 Consumer Behavior, and junior or senior standing.

MKTG 450 Marketing Research and Decision Making

3 hours. Marketing research is behind any sound marketing decision and activity. This course addresses the process in which marketing research is conducted: defining research needs, formulating research questions, designing the appropriate methodologies, collecting and analyzing qualitative and quantitative data, and reporting the findings. Prerequisites: MKTG 260 Principles of Marketing, senior status and college level statistics course 200 level or higher. Students who've taken PSYC 240 or SOCI 340 must also complete MATH 150 or higher, or have a SAT math score of 620 or higher or have an ACT score of 28 or higher.

MKTG 475 Field Experience

1-6 hours. Supervised experiences in businesses, nonprofit organizations, and public agencies. Pass/No Pass.

MKTG 480 Marketing Management and Strategy

3 hours. This course examines problems in high-level marketing decision making, considering several strategic marketing planning frameworks frequently applied during the analysis of such problems. The course will focus on a variety of management problems, which include balancing needs of competing strategic business units, factoring competitors' behaviors in the marketplace, developing long-term marketing advantages, and consideration of profit and other financial consequences. Prerequisite: MKTG 420 Marketing Communications, MKTG 450 Marketing Research and Decision Making, and senior standing.

MKTG 485 Selected Topics

1-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

MKTG 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MLAN

MUSA

MUSA 105BR Applied Brass

.5-1 hours. Instruction on trumpet, French horn, trombone, baritone, and tuba. Technical studies include tone production, scales, and arpeggios with various articulation. Works from the standard solo and orchestral repertoire are studied. Additional course fee is required.

MUSA 105GT Applied Guitar

.5-1 hours. Study of playing techniques, with emphasis on chordal knowledge and basic strums. Solos and ensemble pieces will be included for each student at his or her performance level. Additional course fee is required.

MUSA 105JZ Applied Jazz

.5-1 hours. A study of improvisational methods through task-oriented performance of selected jazz repertoire. The goal of this class is to introduce concepts and practice methods used by jazz artists to gain improvisation skills and to apply them to your own practice and performance over selected jazz repertoire. Additional course fee is required.

MUSA 105OR Applied Organ

.5-1 hours. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods. Additional course fee is required.

MUSA 105PN Applied Piano

.5-1 hours. Technical exercises, scales, and arpeggios in various rhythms; études of varying difficulty, such as those by Duvernoy, Burgmuller, Heller, Czerny, and Clementi. Repertoire from the historical periods are studied, including selected contemporary composers. A select group of concerti are also studied. Additional course fee is required.

MUSA 105PR Applied Percussion

.5-1 hours. Instruction on snare drum, tympani, the mallet instruments, and drum set. An in-depth study of all the percussion instruments used in the wind ensemble and orchestra. Additional course fee is required.

MUSA 105ST Applied Strings

.5-1 hours. Instruction on violin, viola, cello, and string bass. Basic fundamentals, posture, bow, and arm techniques, shifting, and vibrato. Included are scale and arpeggio studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 105VC Applied Voice

.5-1 hours. Study of proper voice production, with emphasis on posture, breathing, and resonance. Studies from the standard repertoires, including English songs, Italian classics, German lieder, French art songs, oratorio and operatic arias, and selected contemporary works. Additional course fee is required.

MUSA 105WW Applied Woodwinds

.5-1 hours. Instruction on flute, clarinet, oboe, saxophone, and bassoon. Tone production, scales, and arpeggios in various articulations. Includes technical studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 115 Master Chorus

0-1 hours. This chorus is composed of members of the community and open to all university students, faculty, staff, and alumni singers. The chorus, usually accompanied by orchestra, performs a major and/or master sacred choral work each spring. Handel's Messiah is usually performed every third year.

MUSA 125C Concert Choir

0-2 hours. The Concert Choir is committed to excellent choral singing in a wide variety of styles, including contemporary sacred and gospel arrangements, spirituals, and hymn settings. The choir's combined commitment to excellence and ministry finds expression in concerts given on campus and in churches throughout the Northwest. Rehearsals are held four days a week. Additional course fee required. Prerequisite: audition.

MUSA 125O Opera Workshop

1 hour. The purpose of this course is to provide intensive training in the musical, linguistic and theatrical aspects of opera production. A workshop-based ensemble in which students prepare and present scenes from complete works of traditional and contemporary operatic literature culminates in a semi-staged public performance.

MUSA 125T Music Theater

.5-1 hours. Membership is open to all students interested in the production aspects of theatre. This organization offers one major presentation each spring. Works performed include Broadway musicals, light opera, music reviews, and an occasional opera. Orchestra accompaniment generally is used, and productions are completely staged, choreographed, costumed, and lighted. Prerequisite: chorus members and leading roles are selected by audition.

MUSA 135A Chamber Singers

0-1 hours. This ensemble sings a flexible repertoire ranging from Renaissance madrigals through contemporary vocal jazz settings and Christian contemporary gospel. Members present concerts in the Portland region and participate in various campus concerts. Prerequisite: audition and concurrent enrollment in Concert Choir.

MUSA 135B Chorale

0-1 hours. A chorus of men's and/or women's voices using a variety of sacred and secular literature that is appropriate to members' skill level. Students learn proper tone production and sight-reading skills and experience rehearsal techniques that will prepare them for Concert Choir and/or singing beyond graduation. This class meets twice a week. Additional course fee required. Prerequisite: instructor's permission at the beginning of each semester.

MUSA 135H Handbell Ringers

0-1 hours. This musical ensemble shares its music with community agencies, churches, and university audiences. Limited to 11 ringers. Prerequisite: audition/interview.

MUSA 135J Vocal Jazz Ensemble

0-1 hours. A vocal ensemble and rhythm section specializing in the preparation, study, and performance of vocal jazz. Performances are usually for university events and some off-campus concerts. Vocalists will learn to improvise and sing with style and tone appropriate to the idiom. Rhythm section players will learn how to effectively accompany, improvise, and play as a trio. Prerequisite: audition, instructor's permission, and concurrently enrolled in major ensembles.

MUSA 145B Symphonic Band

0-2 hours. The Symphonic Band is a touring ensemble that plays concerts throughout the Northwest. The spring tour repertoire is played in schools, churches, and for chapel.

This ensemble serves to train students for careers in instrumental conducting and performing. Additional course fee required. Prerequisite: instructor's permission.

MUSA 145J Jazz Ensemble

0-1 hours. An ensemble organized to train instrumentalists in the jazz repertoire. Performances are usually for school events and some off-campus concerts. Prerequisite: members who are music majors must also be enrolled in the Symphonic Band.

MUSA 145K Keyboard Ensemble

0-1 hours. Open to any piano student, regardless of major. The repertoire includes all styles, with emphasis on pieces composed for multiple keyboards. Participants share in performance opportunities. For music majors who are not vocal students or do not play band or orchestral instruments, the course will satisfy the "major ensemble" requirement. Prerequisite: audition or instructor's permission.

MUSA 155 George Fox University Symphony Orchestra

0-2 hours. The symphony orchestra performs music by the master composers of the Baroque, Classical, Romantic, and Modern eras. Concertos featuring student soloists are often part of the annual repertoire. Community and faculty musicians combine with university students to form this ensemble. Performances include fall and spring concerts, as well as accompaniment of the Master Chorus. Additional course fee required. Prerequisite: instructor's permission.

MUSA 165 Chamber Music

0-1 hours. A variety of small chamber groups organized to meet the interests of instrumental and vocal music students who desire to perform literature for the chamber ensemble. Small chamber groups will be organized by experience and performance ability. Combinations can include, but are not limited to: string quartet, brass quartet, woodwind quintet, and piano trio.

MUSA 285 Selected Topics

1-3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

MUSA 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MUSA 305BR Applied Brass

.5-1 hours. Instruction on trumpet, French horn, trombone, baritone, and tuba. Technical studies include tone production, scales, and arpeggios with various articulation. Works from the standard solo and orchestral repertoire are studied. Additional course fee is required.

MUSA 305GT Applied Guitar

.5-1 hours. Study of playing techniques, with emphasis on chordal knowledge and basic strums. Solos and ensemble pieces will be included for each student at his or her performance level. Additional course fee is required.

MUSA 305JZ Applied Jazz

.5-1 hours. A study of improvisational methods through task-oriented performance of selected jazz repertoire. The goal of this class is to introduce concepts and practice methods used by jazz artists to gain improvisation skills and to apply them to your own

practice and performance over selected jazz repertoire. Additional course fee is required.

MUSA 305OR Applied Organ

.5-1 hours. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods. Additional course fee is required.

MUSA 305PN Applied Piano

.5-1 hours. Technical exercises, scales, and arpeggios in various rhythms; Études of varying difficulty, such as those by Duvernoy, Burgmuller, Heller, Czerny, and Clementi. Repertoire from the historical periods are studied, including selected contemporary composers. A select group of concerti are also studied. Additional course fee is required.

MUSA 305PR Applied Percussion

.5-1 hours. Instruction on snare drum, tympani, the mallet instruments, and drum set. An in-depth study of all the percussion instruments used in the wind ensemble and orchestra. Additional course fee is required.

MUSA 305ST Applied Strings

.5-1 hours. Instruction on violin, viola, cello, and string bass. Basic fundamentals, posture, bow, and arm techniques, shifting, and vibrato. Included are scale and arpeggio studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 305VC Applied Voice

.5-1 hours. Study of proper voice production, with emphasis on posture, breathing, and resonance. Studies from the standard repertoires, including English songs, Italian classics, German lieder, French art songs, oratorio and operatic arias, and selected contemporary works. Additional course fee is required.

MUSA 305WW Applied Woodwinds

.5-1 hours. Instruction on flute, clarinet, oboe, saxophone, and bassoon. Tone production, scales, and arpeggios in various articulations. Includes technical studies and works from the standard solo and orchestral repertoire. Additional course fee is required.

MUSA 315 Master Chorus

0-1 hours. This chorus is composed of members of the community and open to all university students, faculty, staff, and alumni singers. The chorus, usually accompanied by orchestra, performs a major and/or master sacred choral work each spring. Handel's Messiah is usually performed every third year.

MUSA 325C Concert Choir

0-2 hours. The Concert Choir is committed to excellent choral singing in a wide variety of styles, including contemporary sacred and gospel arrangements, spirituals, and hymn settings. The choir's combined commitment to excellence and ministry finds expression in concerts given on campus and in churches throughout the Northwest. Rehearsals are held four days a week. Additional course fee required. Prerequisite: audition.

MUSA 325O Opera Workshop

1 hour. The purpose of this course is to provide intensive training in the musical, linguistic and theatrical aspects of opera production. A workshop-based ensemble in which students prepare and present scenes from complete works of traditional and contemporary operatic literature culminates in a semi-staged public performance.

MUSA 325T Music Theatre

.5-1 hours. Membership is open to all students interested in the production aspects of theatre. This organization offers one major presentation each spring. Works performed include Broadway musicals, light opera, music reviews, and an occasional opera. Orchestra accompaniment generally is used, and productions are completely staged, choreographed, costumed, and lighted. Prerequisite: chorus members and leading roles are selected by audition.

MUSA 335A Chamber Singers

0-1 hours. This ensemble sings a flexible repertoire ranging from Renaissance madrigals through contemporary vocal jazz settings and Christian contemporary gospel. Members present concerts in the Portland region and participate in various campus concerts. Prerequisite: audition and concurrent enrollment in Concert Choir.

MUSA 335B Chorale

0-1 hours. A chorus of men's and/or women's voices using a variety of sacred and secular literature that is appropriate to members' skill level. Students learn proper tone production and sight-reading skills and experience rehearsal techniques that will prepare them for Concert Choir and/or singing beyond graduation. This class meets twice a week. Additional course fee required. Prerequisite: instructor's permission at the beginning of each semester.

MUSA 335H Handbell Ringers

0-1 hours. This musical ensemble shares its music with community agencies, churches, and university audiences. Limited to 11 ringers. Prerequisite: audition/interview.

MUSA 335J Vocal Jazz Ensemble

0-1 hours. A vocal ensemble and rhythm section specializing in the preparation, study, and performance of vocal jazz. Performances are usually for university events and some off-campus concerts. Vocalists will learn to improvise and sing with style and tone appropriate to the idiom. Rhythm section players will learn how to effectively accompany, improvise, and play as a trio. Prerequisite: audition, instructor's permission, and concurrently enrolled in major ensembles.

MUSA 345B Symphonic Band

0-2 hours. The Symphonic Band is a touring ensemble that plays concerts throughout the Northwest. The spring tour repertoire is played in schools, churches, and for chapel. This ensemble serves to train students for careers in instrumental conducting and performing. Additional course fee required. Prerequisite: instructor's permission.

MUSA 345J Jazz Ensemble

0-1 hours. An ensemble organized to train instrumentalists in the jazz repertoire. Performances are usually for school events and some off-campus concerts. Prerequisite: members who are music majors must also be enrolled in the Symphonic Band.

MUSA 345K Keyboard Ensemble

0-1 hours. Open to any piano student, regardless of major. The repertoire includes all styles, with emphasis on pieces composed for multiple keyboards. Participants share in performance opportunities. For music majors who are not vocal students or do not play band or orchestral instruments, the course will satisfy the "major ensemble" requirement. Prerequisite: audition or instructor's permission.

MUSA 355 George Fox University Symphony Orchestra

0-2 hours. The symphony orchestra performs music by the master composers of the Baroque, Classical, Romantic, and Modern eras. Concertos featuring student soloists are often part of the annual repertoire. Community and faculty musicians combine with university students to form this ensemble. Performances include fall and spring concerts, as well as accompaniment of the Master Chorus. Additional course fee required. Prerequisite: instructor's permission.

MUSA 365 Chamber Music

0-1 hours. A variety of small chamber groups organized to meet the interests of instrumental and vocal music students who desire to perform literature for the chamber ensemble. Small chamber groups will be organized by experience and performance ability. Combinations can include, but are not limited to: string quartet, brass quartet, woodwind quintet, and piano trio.

MUSA 485 Selected Topics

1-3 hours. A variety of topics may be offered that reflect the interests of faculty, visiting professors, and students.

MUSA 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MUSI

MUSI 100 Music Fundamentals

2 hours. This course provides a fundamental understanding of music by considering the basics of musical construction, with examples drawn from the history of music. A study of musical notation, interval recognition, elements of pitch and rhythm, scale and chord construction, essential concepts in harmony, and basic musical forms. The student will be able to experience these fundamental concepts at the piano. No musical or keyboard experience is necessary. This is a general education course for non-music majors.

MUSI 110 Understanding Jazz

2 hours. A study of various aspects and types of jazz, from blues to jazz rock. Students will discover the great jazz artists and learn how to listen to a variety of jazz idioms.

MUSI 120 World of Music

2 hours. This course acquaints the liberal arts student with a broad range of musical styles reflecting diverse cultures, including classical, jazz, and popular music. Various composers, performers, and their music are listened to and studied. This is a general education course for non-music majors.

MUSI 121 Theory I

3 hours. A course designed to help the student systematically acquire basic information and interrelated skills that will be of value in future musical endeavors as performer, teacher, or composer. Includes work in part writing, keyboard harmony, analysis, and creative writing. Corequisite: MUSI 131 Sight Singing and Ear Training I.

MUSI 122 Theory II

3 hours. A course designed to help the student systematically acquire basic information and interrelated skills that will be of value in future musical endeavors as performer, teacher, or composer. Includes work in part writing, keyboard harmony, analysis, and creative writing. Corequisite: MUSI 132 Sight Singing and Ear Training II. Prerequisite: MUSI 121 Theory I.

MUSI 125 Voice Class

1 hour. May be repeated for credit. This course is intended to improve and strengthen the voice as a solo instrument. The ability to read music is helpful although not necessary. Attendance and class participation coupled with a minimum of four 15- to 30-minute individual practice sessions each week will enable consistent growth and increased strength. Students will sing individually to the group using exercises and songs worked on in class. The group format and class size provide an excellent built-in performance opportunity.

MUSI 130 Music in World Cultures

2 hours. An introductory thematic study of the roles of music in a variety of world cultures, with emphasis on listening to, viewing, and understanding a broad selection of musical styles mostly outside the Western classical tradition.

MUSI 131 Sight Singing and Ear Training I

1 hour. A lab experience designed to develop proficiency in singing prepared melodies, melodies at sight, rhythmic patterns, and in taking basic melodic dictation. Corequisite: MUSI 121 Theory I.

MUSI 132 Sight Singing and Ear Training II

1 hour. A lab experience designed to develop proficiency in singing prepared melodies, melodies at sight, rhythmic patterns, and in taking basic melodic dictation. Corequisite: MUSI 122 Theory II.

MUSI 135 Class Piano

1 hour. May be repeated for credit. Elementary- to intermediate-level class instruction in piano. This class is open to any student regardless of previous experience and does not require instructional fees in addition to the normal tuition cost. Students working toward achieving the required piano proficiency may choose to study private applied piano with the instructor's consent rather than enroll for Class Piano. Required of all music majors who have not yet met the piano proficiency skill level.

MUSI 150 Keyboard Accompaniment

1 hour. This course provides "on-the-job training" and special insights and skills in the art of accompanying. A wide range of repertoire is studied, from accompanying classical solo artists to accompanying choirs (both classical and gospel), small ensembles, and congregational singing.

MUSI 180 Introduction to Music Technology

2 hours. Introductory work with technological resources basic to work in the music field. Includes hands-on experience with MIDI and sequencing, music notation programs and desktop publishing, digital sound formats, and basic Web authoring.

MUSI 190 Foundations of Music Education

1 hour. Required for Music Education Majors. This course will lay the foundation for all music education courses that will be taken after. In this course students will explore what it means to be a music educator and as the course continues they will delve into the teaching process. Course content will include preparing and executing short teaching episodes, guided observation of master teachers in the field and keeping a journal of all activities done in the class. All students will join George Fox's Collegiate Music Educators National Conference chapter and will participate in the Oregon Music Educators Conference.

MUSI 200 Basic Conducting

1.5 hours. Introduction to the basic fundamentals of conducting for the music major, the music education major, and the future church musician. Emphasis is placed upon the mastery of simple conducting patterns, cues, and expressive gestures, and on common problems in leading group singing and in directing musical ensembles.

MUSI 210 Keyboard Lit

2 hours. Through a variety of keyboard music (harpsichord, piano, organ, and synthesizer), students will acquire an understanding of diverse keyboard approaches from the Baroque through contemporary styles. Recommended for those especially interested in keyboard music.

MUSI 221 Theory III

4 hours. A continuation of Theory II. Includes chromatic harmonies and remote modulations. Introduction to 20th-century harmonic usage. Creative work is required. Prerequisite: MUSI 122 Theory II.

MUSI 222 Theory IV

4 hours. A continuation of Theory III. Includes chromatic harmonies and remote modulations. Introduction to 20th-century harmonic usage. Creative work is required. Prerequisite: MUSI 221 Theory III.

MUSI 225 Composition

1 hour. Individual lessons in composition. Initial inquiry into organization of sound resources, developing techniques for working with musical materials, and composition in small forms. May be repeated for credit. Prerequisites: MUSI 122 Theory II and MUSI 132 Sight Singing and Ear Training II, or instructor's permission.

MUSI 240 Body Mapping and Movement for Musicians

1 hour. Students will learn how to apply Alexander Technique and Andover Body Mapping principles to musical performance. The course strives to guide students to freedom and ease in body use to avoid injury and pain in music making.

MUSI 250 Class Guitar

1 hour. This course offers vital foundational instruction in the techniques of playing guitar. Proper hand position, fingering, and strumming styles, and a broad range of chords are presented. Learn to read music, tab, and understand basic concepts of theory. Have fun playing cool riffs, chord progressions, and songs. Ideal for learning techniques applicable to leading worship.

MUSI 270 Music Techniques Instrumental I

1 hour. Fundamental instruction in the technique required to play music instruments at an intermediate level. Attention will be given to the technical aspects of music performance with an emphasis on the various demands related to teaching instrumentalists. Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 271 Music Techniques Instrumental II

1 hour. Fundamental instruction in the technique required to play music instruments at an intermediate level. Attention will be given to the technical aspects of music performance with an emphasis on the various demands related to teaching instrumentalists. Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II. (MUSI 270 is not a prerequisite for MUSI 271.)

MUSI 272 Music Techniques Vocal

1 hour. This course is designed to present a practical program to explain the physical, technical, and artistic aspects of singing combining historical pedagogy with current research in acoustics and the physiology of the human voice. We will explore how to coordinate the activities of resonance, articulation, vibration, and energization of the system to produce a freely functioning voice. Students will increase their aural awareness and understand the distinction between speaking and singing. They will learn to problem-solve and diagnose vocal stress in the role of teacher, observer, and student. Prerequisite: MUSA 105 VC Applied Voice or MUSA 305 VC Applied Voice or MUSI 125 Voice Class. (MUSI 270 and MUSI 271 are not prerequisites for MUSI 272.)

MUSI 273 Instrumental Music Techniques for Choral Conductors

1 hour. A technical overview of woodwind, brass, string, and percussion instruments designed for choral music education students. Emphasis on helping the student troubleshoot and teach the fundamentals of instrumental music.

MUSI 275 Field Experience

1-5 hours. Supervised experience in music apprenticeship as conductor, performer, or composer. Prerequisite: permission of music faculty.

MUSI 280 Vocal Diction

1 hour. The purpose of this course is to prepare students to sing accurately, idiomatically and expressively in English, Latin, Italian, French and German. Elements of lyric diction will be presented in ways that stress their connection to the meaning, color, and expressive power of the text. We will use the International Phonetic Alphabet as

a means of presenting and reinforcing the sonic vocabulary as well as rudiments of grammar and vocabulary that will enable the student to present the text clearly and with poetic intent. Music studied will be performed in class.

MUSI 285 Selected Topics

1-3 hours. Selected topics are offered as music electives when special needs arise or when sufficient enrollment permits. Course content includes specific interests of students and faculty.

MUSI 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

MUSI 310 Counterpoint

2 hours. Principles of 16th- and 18th-century polyphony. Detailed study of the works of J.S. Bach and his contemporaries. Original composition required.

MUSI 311 Music History I

3 hours. A study of the development of music from antiquity through the 20th century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods. Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 312 Music History II

3 hours. A study of the development of music from antiquity through the 20th century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods. Prerequisite: MUSI 311 Music History I.

MUSI 320 Form And Analysis

2 hours. Detailed study of the structural components of music, including the motive, phrase, and period. Application to principal contrapuntal and homophonic forms of the Classic, Romantic, and Modern periods. Prerequisites: MUSI 221 Theory III and MUSI 222 Theory IV.

MUSI 340 Creating, Planning, and Leading Worship

3 hours. The purpose of this course is to teach students how to plan, prepare and execute worship in various settings. Students will be exposed to different styles of worship services and different components and ordinances used in Christian worship services. We will also explore different technologies used in planning and leading worship.

MUSI 350 Music Theatre Performance

3 hours. An introduction to the acting, dance, and vocal techniques required for music theatre performance. Through in-depth scene study, vocal training, dance, and in-class performances, the student will be introduced to the various artistic challenges inherent in music theatre since its inception. This course requires additional outside-of-class time for rehearsals and performance of selected material. Additional course fee is required. (Identical to MUSI 350.) Prerequisites: THEA 100 Acting I - Fundamentals and MUSA 105 VC Applied Voice or MUSI 125T Music Theatre or MUSI 325T Music Theatre.

MUSI 380 Keyboard Improvisation and Service Playing

2 hours. A practical course for pianists and organists seeking to discover creative approaches in programming and leading the congregation in inspirational worship and celebration.

MUSI 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

MUSI 400 Music and Christian Faith

2 hours. A study of the relationships between musical communication and Christian faith and practice. Also includes some preparatory modules for senior recital. Prerequisites: MUSI 222 Theory IV and MUSI 312 Music History II or equivalents, and junior or senior standing.

MUSI 410 Elementary Music Methods

3 hours. Students will be introduced to the foundations of elementary music education including the National Standards and current teaching methodologies. Student observation and participation will provide the basis of an understanding of teaching music at the elementary level. Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 411 Middle Level and High School Music Methods

3 hours. Students will investigate the many special teaching demands of music education at the secondary level. Vocal and instrumental music ensembles will be studied to determine the special requirements of these performance groups. Music courses at the secondary level will be examined to determine their individual teaching methodologies. Prerequisites: MUSI 121 Theory I and MUSI 122 Theory II.

MUSI 425 Composition

1.5 hours. Individual lessons in composition. Continuing work in composition including (but not limited to) composition in larger forms, digital media, multi-movement forms, exploration of style resources. Prerequisites: MUSI 225 Composition I and admission to upper-division study, or instructor's permission.

MUSI 430 Instrumentation and Orchestration

2 hours. A study of the instruments of the orchestra and band, including their ranges, characteristics, and capabilities. Practical application of the principles of arranging and scoring for orchestral/band instrumental combinations. Prerequisites: MUSI 221 Theory III and MUSI 222 Theory IV.

MUSI 460 Advanced Conducting

2 hours. A course designed to acquaint the student with advanced choral and instrumental literature. Basic conducting patterns are reviewed and adapted to all aspects of conducting: syncopation, cuing, and expressive gestures. Prerequisite: MUSI 200 Basic Conducting.

MUSI 475 Field Experience

1-5 hours. Supervised experience in music apprenticeship as conductor, performer, or composer. Prerequisite: permission of music faculty. Pass/No Pass.

MUSI 481 Degree Recital/Project 1

.5 hours. Students prepare a project in cooperation with a faculty advisor. The project is presented before an audience and filed permanently in the music department.

MUSI 482 Degree Recital/Project 2

.5 hours. Students prepare a project in cooperation with a faculty advisor. The project is presented before an audience and filed permanently in the music department.

MUSI 485 Selected Topics

1-3 hours. Selected topics are offered as music electives when special needs arise or when sufficient enrollment permits. Course content includes specific interests of students and faculty.

MUSI 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

NURS

NURS 201 Nursing Fundamentals

5 hours. Introduction and application of theories concerning clients in need of primary, acute, and restorative nursing care. Students will be introduced to basic nursing concepts, skills, and techniques of professional nursing practice. Application of health assessment and basic nursing skills in the care of individuals experiencing alterations in biopsychosocial, cultural, and spiritual health status. Additional course fee is required. Prerequisites: Admission to the Nursing Program, BIOL 367 Essentials of Microbiology and NURS 311 Pathophysiology.

NURS 204 Introduction to Nursing Professional Practice

2 hours. Introduction to study of professional nursing as a science and as an art. Encompasses role definition of nursing based on scientific theoretical frameworks and the art of caring. Students learn the nursing process, a critical thinking approach to problem-solving and decision-making on behalf of patients, and are introduced to evidence-based practice. Introduces definitions, historical background and status of nursing as a profession and as a discipline of applied science. Prerequisites: Admission to the Nursing Program.

NURS 210 Health Assessment

2 hours. The systematic and continuous collection of biopsychosocial, cultural, and spiritual data through the assessment of clients' strengths and coping resources, actual and potential health problems, and the identification of factors that place clients at risk for alterations in health. Prerequisite: Admission to Nursing Program, NURS 204 Introduction to Nursing Professional Practice, and NURS 311 Pathophysiology.

NURS 275 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

NURS 285 Selected Topics

1-3 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

NURS 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

NURS 301 Nursing Care of Adults with Acute Conditions

7 hours. This course introduces the student to the use of nursing process in the care of adults with life threatening conditions and exacerbation of chronic conditions. The clinical practicum provides an opportunity to integrate learning with clients in the acute care setting. Prerequisites: NURS 201 Nursing Fundamentals, NURS 210 Health Assessment, NURS 311 Pathophysiology, and NURS 312 Pharmacology.

NURS 302 Nursing Care of Adults with Complex Conditions

7 hours. This course presents clinical decision-making and clinical judgment strategies for the care of adults with acute and complex conditions. Building on NURS 301: Nursing Care of Adults with Acute Conditions, the nursing process is used to analyze

and intervene in alterations to the health of the individual and family. The clinical practicum provides an opportunity to work with clients in the acute care and complex settings such as the emergency department, intermediate care, and critical care settings. Prerequisite: NURS 301 Nursing Care of Adults with Acute Conditions.

NURS 311 Pathophysiology

3 hours. Pathophysiology is a study of the basic principles, processes, and physiological changes of alterations in body systems. This course will provide a review of human physiology and an overview of pathophysiology, emphasizing imbalance of homeostatic mechanisms and etiology of disease. Pathophysiology of the body systems will be examined from cellular, organ, and systemic levels. Discussions and applied materials will be directed primarily toward nursing students but may also be useful to others wishing to explore healthcare-related fields. Prerequisites: Admission to the Nursing Program, BIOL 221 Human Anatomy and Physiology I, BIOL 222 Human Anatomy and Physiology II, CHEM 151 General, Organic and Biochemistry, or instructor permission.

NURS 312 Pharmacology

3 hours. Pharmacology is the study of various drug classifications, their impact on living tissue, and their actions and distributions in the body - pharmacodynamics and pharmacokinetics. This course will provide an overview of the therapeutic use of drugs on humans. Classes of drugs will be reviewed by body system with key drugs within each class emphasized. The molecular and cellular mechanisms of drug action will be explored, as well as specific drug pharmacokinetics and adverse reactions along with appropriate nursing interventions related to medication administration. Prerequisites: Admission to the Nursing Program, BIOL 211 Anatomy and Physiology I, BIOL 222 Anatomy and Physiology II, CHEM 151 General, Organic and Biochemistry, NURS 311 Pathophysiology or by instructor permission.

NURS 313 Nutrition Essentials for Nursing Practice

3 hours. This course will cover the science and fundamentals of human nutrition. In this course, topics covered will include nutritional requirements related to changing individual and family needs, food choices, health behaviors, prevention of chronic disease and nutrition-related public health in the United States and globally. Prerequisites: NURS 204 Introduction to Nursing Professional Practice and NURS 311 Pathophysiology.

NURS 324 Evidence-based Nursing for Clinical Practice

2 hours. The emphasis for this course is on the elements of evidence-based practice (EBP). Focus is placed on the cyclical process of identifying clinical questions, searching and appraising the evidence for potential solutions/innovations, planning and implementing practice changes, evaluating the outcomes, and identifying additional gaps in the nursing knowledge. Integration of the existing evidence with clinical judgment, patient preferences, inter-professional perspectives, and other resources forms the basis for the clinical decision-making process that is inherent in improving patient, population, and organizational outcomes. Prerequisites: Statistics (MATH 240, PSYC 240, or SOCI 340), NURS 201 Nursing Fundamentals, NURS 210 Health Assessment, and junior standing in the Nursing Program, or instructor permission.

NURS 370 Nursing Care of Children and Families

3 hours. This course provides acquisition and integration of knowledge vital to the holistic nursing care of children and families experiencing acute and chronic threats to health. Prerequisite: NURS 301 Nursing Care of Adults with Acute Conditions and junior standing or instructor permission.

NURS 390 Junior Academic Milestone Remediation

1 hour. The purpose of this course is to assist the nursing student explore strategies for the integration of nursing clinical practice knowledge with improved standardized test performance. Course content is individualized based on each student's specific nursing content weaknesses based on standardized test score reports. Effective test-taking strategies will be emphasized. Prerequisite: NURS 302 Nursing Care of Adults with Complex Conditions.

NURS 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

NURS 401 Public Health Nursing

5 hours. The synthesis and application of nursing theory and public health theory applied to promoting, preserving, and maintaining the health of populations through the delivery of personal health care services to individuals, families, groups, and communities. Additional course fee required. Prerequisite: All nursing courses at the junior level

NURS 411 Mental Health Nursing

5 hours. Exploration of psychiatric nursing principles of mental health promotion and illness prevention; of evidence-based treatment modalities; of hospital and community treatment options; and of nursing principles applied to specific psychiatric clinical disorders. Prerequisites: Senior status and NURS 302 Nursing Care of Adults with Complex Conditions.

NURS 421 Nursing Care of the Childbearing Family

6 hours. This course builds on the concepts of previous nursing courses with emphasis on utilizing the Nursing Process in dealing with women's health focusing on the childbearing years, antepartum, intrapartum, postpartum, and the health of newborns. Students will explore the concepts of health promotion, disease prevention, and alterations in health related to women in these phases and the newborn infant. Emphasis is on the whole person care of the client and the family. Management and planning of the Nursing Process will include concepts from a variety of culturally diverse settings to include nursing in the community. Prerequisite: NURS 302 Nursing Care of Adults with Complex Conditions or by permission of instructor.

NURS 430 Population Health Nursing

6 hours. This course addresses population focused health promotion, and disease and injury prevention based on determinants of local, national and global health including lifestyle, environmental, cultural, and genetic factors. Addresses evidence-based clinical prevention responses, including information technology, inter-professional collaboration, population-focused advocacy partnerships, and the caring role of the professional registered nurse to improve population health and minimize the consequences of mass emergencies. Prerequisites: NURS 302 Nursing Care of Adults with Complex Conditions, and Senior standing in the Nursing Program, or instructor permission.

NURS 442 Nursing Leadership and Management

3 hours. The study of the leadership and management roles and functions filled by professional, registered nurses in a broad range of health care organizations and settings. Focus is on learning and applying core concepts of nursing leadership and

management, and the requisite skills of effective nurse leaders/managers. The influence on nursing practice of theoretical, legal, ethical, economic, sociological, cultural and regulatory factors in the ever-changing health care system is examined. Students will have the opportunity to explore their personal and professional perceptions of how nursing leaders/managers impact nursing practice and patient care outcomes. Course should be taken the last semester of a student's senior year in the program. Co-requisite: NURS 490 Nursing Capstone. Prerequisites: NURS 302 Nursing Care of Adults with Complex Conditions, NURS 411 Mental Health, NURS 430 Population Nursing and senior standing in Nursing Program.

NURS 452 Gerontological Nursing

2 hours. Exploration of the field of nursing that focuses on care of the older adult with chronic conditions. Includes unique healthcare needs of seniors, nursing approaches to managing these needs, ethical and legal issues that impact senior care, and exploration of the richness and wisdom of life experience shared by these members of society and families. Prerequisites: Senior standing in nursing program or by instructor permission.

NURS 475 Field Experience

1-6 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

NURS 481 ECG Interpretation

1 hour. This course will review cardiovascular anatomy and physiology and basic electrophysiology. Students will understand wave-forms, intervals, segments, and complexes. Through cardiac rhythm strip analysis, recognition of sinus, atrial, ventricular arrhythmias, and AV heart blocks will be emphasized. Prerequisites: BIOL 221 Human Anatomy & Physiology I, BIOL 222 Human Anatomy & Physiology II, NURS 311 Pathophysiology, NURS 312 Pharmacology, NURS 301 Nursing Care of Adults with Acute Conditions, or instructor permission.

NURS 482 Breastfeeding

1 hour. This course will cover the science and fundamentals of human lactation and breastfeeding. In this course, topics covered will include the bio-specificity of human milk, maternal anatomy and physiology of lactation, common breastfeeding problems, and maternal-related issues to breastfeeding. Prerequisite: Senior standing in the nursing program or instructor permission.

NURS 483 Healthcare of the Developing World

1 hour. This hybrid course will be learning about various aspects of healthcare in third world countries. This will include studying tropical diseases not commonly seen in the United States as well as discussing general aspects of medical missions, both short-term and long-term. We will examine health issues of impoverished and underserved areas and evaluate interventions, resources, and programs for disease prevention and health promotion there. Cultural awareness and cultural humility will be an important concept throughout our discussions. This course would be beneficial for any student interested in medical missions or serving in a third world country in the future. Prerequisites: BIOL 221 Anatomy and Physiology I, BIOL 222 Anatomy and Physiology II, NURS 210 Health Assessment, NURS 311 Pathophysiology and NURS 312 Pharmacology or instructor permission.

NURS 484 Advanced Pharmacology

1 hour. This nursing elective course is designed for senior students to review the pharmacology topics throughout the program and discuss additional medication. This will include discussions of the most common NCLEX drugs as well as overviews of medication recently approved by the FDA.

NURS 485 Selected Topics

1-3 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

NURS 490 Nursing Capstone

4 hours. A broad review of professional nursing content and practice to prepare students for the National Council License Exam for Registered Nurses (NCLEX-RN) licensure exam and transition to practice as registered nurses. Students will engage in the classroom and online learning environments to systematically review nursing content and complete NCLEX practice tests. Application and integration of knowledge and skills will occur during students' practicum experiences working in partnership with clinical teaching associates to provide holistic nursing care to acute-care patients. A comprehensive, standardized examination is completed to determine each student's proficiency and readiness for entry into nursing practice. Course should be taken the last semester of the student's senior year in program. Co-requisite: NURS 442 Nursing Leadership and Management Prerequisites: NURS 301 Nursing Care of Adults with Acute Conditions, NURS 302 Nursing Care of Adults with Complex Conditions, NURS 411 Mental Health Nursing, and senior standing in the nursing program.

NURS 492 Senior Synthesis

1 hour. A comprehensive review of nursing content and practice in preparation for the nursing Senior Academic Milestone and NCLEX-RN, the National Council Examination for Registered Nurses.

NURS 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PHIL

PHIL 150 Introduction to Philosophy

3 hours. This course is designed to introduce students to what it means to think and live philosophically. There are a number of different variations of this course. Each variation picks a different topic through which to explore how philosophy be a tool for interpreting, understanding and interacting with the world. Not only that, we will also examine how philosophy can shape the way in which we live out our lives. Each course includes some reading of Plato and at least one other major philosophy in the tradition. Examples of different variations of this course include: "God, Freedom and Evil", "Simplicity", "Socrates and Plato", "Land and Humans", and "Virtue and Faith".

PHIL 180 Ethics

3 hours. Ethics consists of an analysis of the ethical theories and systems by which persons make judgments and choices, with special attention to contemporary moral issues and the modern revival of virtue theory.

PHIL 214 Philosophy Colloquium

1 hour. Offered each spring, meets every other week during Spring term, requires retreat over MLK Jr. weekend—Friday evening until Sunday noon. Includes discussion of a selected text, carefully read and evaluated over the retreat. Includes bi-weekly discussions of and preparations for practicum/field experience, GRE, and presentations of faculty research. All faculty will attend when possible. Additional course fee required.

PHIL 250 Thinking Well: Logic and Life

3 hours. Logic involves a study of Aristotelian forms of deductive reasoning, including the syllogism, inductive reasoning, fallacies, and some aspect of symbolic logic, including Venn diagrams and truth tables. Its goal is to facilitate sound thinking that is both creative and critical.

PHIL 270 Philosophy of the Arts

3 hours. An introduction to philosophical issues in the arts, such as art and morality, the nature of creativity, aesthetics, and the relation of the arts to worldviews.

PHIL 275 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

PHIL 277 Spirituality and the Intellectual Life

3 hours. This course seeks to overcome the opposition between spirituality and the intellectual life. We will examine ways in which spirituality can deepen and undergird the intellectual life, as well as finding ways that a reflective, deep thinking life can nurture and strengthen one's spirituality. We will not only examine these relationships abstractly, but will attempt to put into practice patterns of integrating mind and spirit.

PHIL 280 Introduction to Political Philosophy

3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to HIST 280 and PHIL 280.)

PHIL 285 Selected Topics

1-3 hours. A seminar on a topic chosen by the professor. Recent topics have been apologetics; postmodern philosophy and Christian thought; philosophy of science; philosophy of E. Levinas; and philosophy of sex, singleness, and marriage. Prerequisite: upper-division majors and others by permission.

PHIL 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PHIL 300 American Political Theory

3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to HIST 300 and PHIL 300.)

PHIL 310 Christian Apologetics

3 hours. A study of classic and contemporary defenses of the Christian faith, including theistic/atheistic arguments, postmodern assessments of religious belief, issues surrounding the doctrine of the resurrection, the miraculous and religious diversity.

PHIL 311 History 1: Ancient and Medieval Philosophy

3 hours. What is the good life, how do we know things, if we do, and what is reality? Many proposed answers to these questions can be traced to those in the past whose thought is classified as philosophical. This course studies the trajectory of thought in the Western world from the Pre-Socratic thinkers through William of Ockham. Readings include both original sources and contemporary interpretations.

PHIL 312 History 2: Modern and Postmodern Philosophy

3 hours. What is the good life, how do we know things, if we do, and what is reality? Many proposed answers to these questions can be traced to those in the past whose thought is classified as philosophical. This course continues to study the trajectory of thought in the Western world begun in History 1. The course begins with Ockham and continues through to current times. Readings include both original sources and contemporary interpretations.

PHIL 313 Feminist Philosophy

3 hours. Comprised of a survey of feminist theory plus detailed readings of several feminist works in philosophy, with attention to feminist theological thought.

PHIL 314 Philosophy Colloquium

1 hour. Offered each spring, meets every other week during Spring term, requires retreat over MLK Jr. weekend—Friday evening until Sunday noon. Includes discussion of a selected text, carefully read and evaluated over the retreat. Includes bi-weekly discussions of and preparations for practicum/field experience, GRE, and presentations of faculty research. All faculty will attend when possible. Additional course fee required.

PHIL 320 Agrarian Philosophy: Life and Land

3 hours. This course seeks to develop an understanding of how humans are affected by their relation to the land and how land is affected by humans. We will examine how this relationship between humans and land affects who we are, how we know, and how we live ethical lives. We will examine this at a theoretical level, but also at the practical level of where we live, how we live, what we eat, and how we engage our local and global economies.

PHIL 330 Religion and Reason

3 hours. What is the nature of religion? Is there a God? What evidence is there for the existence of God? What role does reason play in faith? Does the existence of evil rule out God's existence? What is religious experience? Does it provide grounds for rational religious belief? This course is a general introduction to the philosophy of religion and some of the problems falling under that title.

PHIL 331 Ethical Issues

3 hours. A course in which a variety of moral topics and issues are taken up and considered in some detail. Prerequisite: PHIL 180 Ethics

PHIL 332 Virtue Philosophy

3 hours. This course explores questions crucial to the virtue tradition: What is a good life? What are virtues? How do virtues contribute to a good life? What is the role of natural law and divine commands in understanding virtues? How does the study of moral philosophy contribute to living well? This course in ethical theory examines the history of the virtue tradition as represented by philosophers such as Plato, Aristotle, Aquinas, Hume and Kant as well as the tradition's revival by contemporary philosophers, including Alasdair MacIntyre and Robert Adams. Prerequisite: PHIL 180 Ethics.

PHIL 335 Knowledge and What There Is

3 hours. What kinds of things exist? How do we know they do, if we do? The subject of this course will vary term to term, but can include freewill, theory of knowledge, skepticism, the nature of existence, human nature, the nature of God, personal identity, realism and antirealism, the nature of science and others. May be repeated for credit under different topics.

PHIL 373 Social Theory

3 hours. A critical study of major social philosophers from Comte to the present. Required for sociology majors. (Identical to SOCI 373) Prerequisite: SOCI 150 Principles of Sociology or PHIL 150 Introduction to Philosophy.

PHIL 380 Gender Theory

3 hours. This course is designed expose students to the ways that gender theory, including feminism, womanism, anti-sexism, and masculinism, has developed over the years, and how that theory is applied to literature.

PHIL 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

PHIL 414 Philosophy Colloquium

1 hour. Offered each spring, meets every other week during Spring term, requires retreat over MLK Jr. weekend—Friday evening until Sunday noon. Includes discussion of a selected text, carefully read and evaluated over the retreat. Includes bi-weekly discussions of and preparations for practicum/field experience, GRE, and presentations of faculty research. All faculty will attend when possible. Additional course fee required.

PHIL 415 Contemporary Philosophers

3 hours. This course gives students the opportunity to explore the work of a particular contemporary philosopher in depth. There are a number of different variations of this course. Each variation picks a different philosopher for careful reading and criticism.

Students are encouraged to incorporate insights gained from such study into their own beliefs and manner of life. May be repeated for credit under different topics. Prerequisite: Junior or Senior standing as a philosophy major, or permission of the instructor.

PHIL 435 Contemporary Problems

3 hours. This course examines a chosen philosophical problem by comparing the contributions of several contemporary influential thinkers who have addressed it. There are a number of different variations of this course. Each variation focuses on a different persistent philosophical topic (sometimes called “perennial questions” in philosophy). Students are expected to incorporate critical reflection on the chosen topic into their own beliefs and manner of life. Students may repeat the course, for credit, with a different subtitle. Prerequisite: Junior or Senior standing as a philosophy major, or permission of the instructor.

PHIL 445 History Seminar

3 hours. Examines a particular period or person in the history of philosophy. Choice of period or person determined by student interest and professorial competence.

PHIL 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

PHIL 485 Selected Topics

1-3 hours. A seminar on a topic chosen by the professor. Recent topics have been apologetics; postmodern philosophy and Christian thought; philosophy of science; philosophy of E. Levinas; and philosophy of sex, singleness, and marriage. Prerequisite: upper-division majors and others by permission.

PHIL 490 Philosophy Capstone

3 hours. Taken by each senior philosophy major, this course is designed to allow each student to pursue his or her chosen track (pre-law, social justice, graduate school) in greater depth. This is comprised of some common reading among the entire cohort, a practicum related to one’s chosen track, and student-led discussion based on research done related to each person’s chosen track. For example, a pre-med philosophy student might do a practicum at a hospital, while researching medical ethics, and leading a seminar session on that research. It is meant as a culminating course shared with all the other senior philosophy students.

PHIL 495 Individualized study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PHYS

PHYS 150 Physics of Everyday Life

4 hours. A relevant and practical introduction to everyday physical phenomena through a conceptual survey of various physics topics, including motion, energy, sound, light, electricity, and relativity. No mathematical background is required. This course meets the general education requirement and is designed for non science majors. Two lectures and one laboratory period per week. Additional course fee is required.

PHYS 190 Astronomy

4 hours. An introduction to astronomy covering the solar system, stars, galaxies, and cosmology. The historical context of astronomy will be addressed along with its complex and dynamic relation to faith. The laboratory experience will allow a firsthand experience with some of the pivotal observations and experiments of astronomy. Two lectures and one two-hour laboratory per week. Additional course fee is required.

PHYS 201 General Physics

4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using algebraic methods for analysis. Three lectures and one lab per week. Additional course fee is required. Prerequisite: MATH 190 Precalculus Mathematics.

PHYS 202 General Physics

4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using algebraic methods for analysis. Three lectures and one lab per week. Additional course fee is required. Prerequisite: PHYS 201 General Physics I.

PHYS 211 General Physics with Calculus

4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using calculus methods for analysis. Three lectures and one lab per week. Additional course fee is required. Prerequisite: MATH 201 Calculus I.

PHYS 212 General Physics with Calculus

4 hours. Mechanics, thermodynamics, electricity and magnetism, wave motion and optics, and modern physics, using calculus methods for analysis. Three lectures and one lab per week. Additional course fee is required. Prerequisite: PHYS 211 General Physics with Calculus I.

PHYS 285 Selected Topics

1-4 hours. An introductory seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

PHYS 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PHYS 485 Selected Topics

1-4 hours. An advanced seminar offered on an occasional basis addressing a current topic in the field that is of special interest to students and current faculty.

PHYS 495 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PSCI

PSCI 150 Introduction to Political Science

3 hours. An introduction to the study of the use of political processes to decide public policy and the distribution of resources within and among communities and nations. Systems of government, and individual behaviors and informal political processes within those systems, will be examined using examples from various parts of the world throughout history. In the process, students will begin to explore the major questions of political philosophy, civic leadership, and Christian public ethics.

PSCI 190 American Government

3 hours. The theory and practice of the federal government and the study of key issues in government in general.

PSCI 230 Introduction to International Affairs

3 hours. An introduction to the core issues and problems that affect the entire world, including threats to security such as war and terrorism, the rise of globalization, the persistence of inequality between rich and poor countries, and the degradation of the environment. (Identical to INTL 230.)

PSCI 240 State and Local Government

3 hours. The origins, evolution, structure, and present functions of state, county, and city government, with particular reference to Oregon. Special attention is given to the rising problems of urban government and regional planning.

PSCI 253 Introduction to Comparative Politics

3 hours. Whoever knows only one country knows none. This course introduces students to the field of comparative government and politics by examining the variety of political systems in the world. Particular attention will be paid to contrasting democratic and non-democratic governance, exploring the nature of democracy and the processes of democratization, and evaluating how American institutions and processes compare to other countries.

PSCI 260 Introduction to Law

3 hours. A general study of the role of law and the legal profession in American life, and a survey of the major topics addressed by the law. Attention also is given to the values promoted by our legal system and the Christian's interaction with it.

PSCI 275 Field Experience

1-3 hours. Supervised experiences in varied political agencies. A maximum of three hours of credit can be gained through one internship. No more than six hours of internship credit will be counted toward major requirements, and of these no more than three hours may be upper-level credit. Pass/No Pass.

PSCI 280 Introduction to Political Philosophy

3 hours. A study of great political thinkers and issues from Socrates to the present. Students are encouraged to understand and evaluate these thinkers in their historical contexts, and to consider them as philosophers whose insights are relevant for contemporary debates. (Identical to HIST 280 and PHIL 280.)

PSCI 285 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

PSCI 290 Political Science Research and Writing

3 hours. Explores the methods and resources for undertaking research in political science and writing persuasive and sound analytical papers. A required course for all political science majors and minors. Students are strongly encouraged to take this course during their sophomore year whenever possible. Prerequisite: PSCI 150 Introduction to Political Science.

PSCI 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PSCI 300 American Political Theory

3 hours. A survey of the major developments in U.S. political theory from the Puritans to the present. The relationship between Christianity and American political theory is given special attention. (Identical to HIST 300 and PHIL 300.)

PSCI 303 International Conflict and Peace

3 hours. Why do wars and conflicts occur and how do we prevent these? This course considers the causes of global insecurity (from wars between countries to transnational terrorism to genocide) and examines the various approaches to their resolution, including the creation of international institutions and military alliances. Special emphasis will be placed on the role of religion in global political conflict.

PSCI 310 Conflict Resolution

3 hours. A study of communication principles found useful in managing conflict productively. Focus is given to conflict occurring in institutional and organizational settings between individuals and groups. Attention also is given to conflict in social, national, and international settings. (Identical to PSCI 310.)

PSCI 320 Constitutional Law: Issues of National Power

3 hours. Considers the powers of the federal judiciary, Congress, and president; the distribution of authority between the national and state governments; and how the Constitution has reflected our evolving theories of politics.

PSCI 330 Politics of the Developing World

3 hours. This course covers the main issues faced by developing countries in Africa, the Middle East, Latin America, and Asia. Special attention is given to economic development and the impact of globalization on these nations. (PSCI 330 and INTL 330 are identical courses)

PSCI 343 Environmental Politics and Policies

3 hours. This course explores the range of national and international environmental problems (from toxic chemicals to nuclear waste to climate change) and the politics that have been created to deal with these issues. A key focus of the course is the development of a faith-based, Christian perspective to caring for creation and responding to environmental realities in this country and around the world.

PSCI 353 Constitutional Law: Civil Rights and Liberties

3 hours. This course focuses on the Supreme Court's interpretation of the Bill of Rights and the Fourteenth Amendment. Special emphasis is placed upon the religion clauses of the First Amendment.

PSCI 354 Christianity and Politics in America

3 hours. This course considers how Christianity and politics have been related throughout American history, how they are related today, and how they should be

related. Special attention is given to Quaker contributions to America's political development.

PSCI 363 War and Conscience in the United States

3 hours. An exploration of American thought on the subject of war, both today and in past crises such as the American Revolution, Civil War, wars with the American Indians, the world wars, Vietnam War, and the Gulf War; a study of the official position major church bodies have taken in regard to war; and the experiences of individuals who refused to fight. (Identical to PSCI 420.)

PSCI 380 American Foreign Policy

3 hours. An inquiry into relationships between the social structure and ideological tradition of the United States and its conduct in world affairs. Attention is given to the substance of American foreign and military policy; to the roles of the White House, State Department, CIA, the military, Congress, private elites, and mass opinion; and to foreign policy impacts on domestic life.

PSCI 383 International Organizations and International Law

3 hours. This course provides students with a solid theoretical and practical understanding of the nature of international organizations (i.e. their origins, structure, and function in world politics) and relation to emerging international law. The practical component of this course examines the historical development, activities, and performance of specific institutions and agencies on a diverse set of policy issues including: security, economics (trade and development), humanitarian assistance, and human rights.

PSCI 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

PSCI 410 Community Mediation

3 hours. A study of mediation skills and their uses in community disputes, including neighborhood conflicts, public policy issues, and as court-annexed alternatives to litigation. Students also will examine the impact of mediation on democratic political theory, on the theory underlying our adversarial legal system, and on Christian views of conflict in the public arena.

PSCI 450 Campaigns and Elections

3 hours. Considers issues surrounding American campaigns and elections. Special emphasis is placed on the role of political parties and the voting behavior of individuals and groups.

PSCI 460 Peace Theory

3 hours. An advanced study of the main theories of peace and nonviolence: what peace is; how it emerges in human, civil, and international relationships; what sustains it; what causes it to break down; and the potential and practice of active nonviolence. Emphasis is given to theories articulated by both scholars and prominent activists (such as Woolman, Gandhi, King, and Dix), and to ideas embodied in such practices as South Africa's Truth and Reconciliation Commissions and Christian Peacemaker Teams.

PSCI 475 Field Experience

1-3 hours. Supervised experiences in varied political agencies. A maximum of three hours of credit can be gained through one internship. No more than six hours of internship credit will be counted toward major requirements, and of these no more than three hours may be upper-level credit. Pass/No Pass.

PSCI 485 Selected Topics

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

PSCI 490 Senior Seminar

3 hours. This capstone course requires majors to think in a sophisticated manner about the relationship between their Christian faith and politics. In addition, students will complete a major project that requires them to draw together skills and information they have learned in lower-level courses.

PSCI 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PSYC

PSYC 150 General Psychology

3 hours. An introduction to the scientific study of human behavior. Major topics include the biological bases of behavior, sensation, perception, thinking, learning, memory, development, emotion, motivation, personality, social interaction, and abnormal behavior. Prerequisite to most other psychology courses.

PSYC 220 Biological Psychology

3 hours. By focusing on the structures and functions of the nervous system, this course provides a biological framework for understanding normal and abnormal complex human behaviors and mental processes such as perception, motor control, learning, memory, and emotions. Prerequisite: PSYC 150 General Psychology

PSYC 240 Statistical Procedures

3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. Prerequisite: high school algebra or equivalent.

PSYC 275 Exploratory Field Experience

2-3 hours. An opportunity to observe professionals in the helping environment. Pass/No Pass.

PSYC 285 Selected Topics

1-3 hours. A course dealing with various topics, as announced, that represent current faculty interests and competencies and student interest. This course option can also be selected to develop an individualized professional development experience. Prerequisite: PSYC 150 General Psychology.

PSYC 290 Professional Seminar

1 hour. This course examines psychology as a career. Career options are examined. Goal setting, professional development, and networking are emphasized. Required for all psychology majors.

PSYC 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

PSYC 310 Lifespan Human Development

3 hours. A study of physical, intellectual, personality, social, and moral development from infancy to old age. Will not count as part of the psychology major. Prerequisite: PSYC 150 General Psychology.

PSYC 311 Child Development

3 hours. study of physical, intellectual, personality, social, and moral development from the prenatal period through late childhood. (Identical to FCSC 311.) Prerequisite: PSYC 150 General Psychology.

PSYC 312 Adult Development

3 hours. A study of physical, intellectual, personality, social, and moral development from young adulthood to old age. Prerequisite: PSYC 150 General Psychology.

PSYC 314 Adolescent Development

3 hours. A study of the unique physical, intellectual, personality, social, and moral developmental changes during the period of adolescence. Prerequisite: PSYC 150 General Psychology.

PSYC 320 Neuroscience

3 hours. This course provides an overview of the neuropsychological, neuroanatomical, and biochemical basis for mental functions including motor control, object recognition, spatial reasoning, attention, language, memory, and emotion. Methods of neuropsychological research are explored. Recommended: PSYC 220 Biological Psychology.

PSYC 330 Personality Theory

3 hours. 0 Personality Theories 3 hours. A survey of the major theorists of personality and their theories. Included are psychoanalytic, dispositional, phenomenological, and behavioral theories. An integrative approach will involve synthesis of important elements of theory and Scripture. Prerequisite: PSYC 150 General Psychology.

PSYC 331 Positive Psychology

3 hours. This course examines mental illness, mental processing, and behavior from a strengths-based approach which emphasizes the strengths and resources individuals bring to a particular situation. The course is designed to explore the concepts, research, techniques, and exercises to enhance optimism, decrease stressors, and increase well-being. Prerequisite: PSYC 150 General Psychology.

PSYC 350 Social Psychology

3 hours. A study of the social and psychological processes of human interaction. Major topics to be covered include conformity, aggression, self-justification, persuasion, prejudice, attraction, and interpersonal communication. Prerequisite: PSYC 150 General Psychology.

PSYC 353 Culture and Psychology

3 hours. This course will cover the nature of culture and its applications to understanding human functioning. Students will examine their own and other cultures, as well as cultural influence on their thought, behavior, and relationships. Prerequisite: PSYC 150 General Psychology.

PSYC 360 Learning

3 hours. A survey of learning theories and the basic research questions being asked in this important field. Special emphasis will be placed on translating experimental theory into practical methods. Prerequisite: PSYC 150 General Psychology.

PSYC 370 Cognition

3 hours. Traditional areas of study in cognitive psychology will be discussed. These areas include perception, attention, memory, reasoning, problem solving, and language. Traditional views as well as current trends will be discussed. Prerequisite: PSYC 150 General Psychology.

PSYC 381 Counseling

3 hours. A study of theory and technique of person-centered counseling. The course is designed to teach basic theoretical postulates and to focus on effective intervention skills for those anticipating future work in Christian ministries, teaching, or mental health settings. Recommended as a prerequisite for field experience work (PSYC 475). (Identical to CHMN 381.) Prerequisites: PSYC 150 General Psychology and sophomore status or above. Recommended: PSYC 330 Personality Theories.

PSYC 382 Advanced Counseling

3 hours. This course builds on the knowledge and skills learned in PSYC 381 Counseling. The course is designed to enhance the clinical skills necessary to form a therapeutic relationship and to connect these skills to a theoretical orientation. A focus of the course is on utilizing counseling skills in various settings including schools and clinics, and with various populations. Prerequisite: PSYC 381 Counseling. Recommended: PSYC 330 Personality Theories.

PSYC 391 Research Methods

3 hours. An introduction to methods of psychological research. Explores essential topics for experimental research including research design, reliability, validity, and research ethics. Students also learn how to critically assess research literature, assimilate information from a variety of sources, and interpret data. In addition, students learn how to prepare manuscripts in APA format and to prepare professional research presentations. Prerequisites: PSYC 150 General Psychology and PSYC 240 Statistical Procedures.

PSYC 392 Advanced Research Methods

3 hours. Students will explore research design, analyses, and computer applications in the areas of cognition, learning, sensation and perception, and development using a variety of hands-on methods. Prerequisites: PSYC 240 Statistical Procedures and PSYC 391 Research Methods.

PSYC 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

PSYC 400 Psychological Testing

3 hours. Students will develop skills in understanding and critically evaluating educational and psychological tests (measures of ability, achievement, personality, and vocational interest). Also, modern principles of "psychometrics" - data-based analysis of test items, scores, and interpretations - will be emphasized, particularly the reliability and validity of items and scales. Students will have hands-on experience with various tests and will computer-analyze sample data from test development projects. Prerequisites: PSYC 150 General Psychology and PSYC 240 Statistical Procedures. Recommended: PSYC 391 Research Methods

PSYC 410 Sensation and Perception

3 hours. Using psychophysical techniques, students will study sensory systems, including vision, audition, olfaction, taste, touch, and kinesthesia. Classic and current theories of perception and sensation will be discussed. Prerequisite: PSYC 150 General Psychology.

PSYC 420 Abnormal Psychology

3 hours. A study of the nature, causation, and treatment of the major psychiatric and behavioral disorders. Prerequisite: PSYC 150 General Psychology. Recommended: PSYC 220 Biological Psychology.

PSYC 422 Child Psychopathology

3 hours. A study of the nature, causation and treatment of the major psychiatric and behavioral disorders among children and adolescents. Prerequisite: PSYC 150 General Psychology. Recommended: PSYC 220 Biological Psychology.

PSYC 430 Addictions

3 hours. Examines the complex interaction of psychological and sociological forces involved in substance abuse and addictions. Etiology, treatment options, and efficacy of treatments are reviewed. Prerequisite: PSYC 381 Counseling. Recommended: PSYC 220 Biological Psychology.

PSYC 433 Health Psychology

3 hours. This course is designed to provide an overview of the field of Health Psychology from a biopsychosocial perspective which assumes that health and illness are determined by the interaction of biological, psychological, and social factors of an individual's life. Prerequisite: PSYC 381 Counseling. Recommended: PSYC 220 Biological Psychology.

PSYC 450 History and Systems of Psychology

3 hours. The history of the various schools of psychology, their origins, distinguishing characteristics, major contributions, theoretical positions, and contemporary issues are investigated. Required for psychology majors. Prerequisite: PSYC 150 General Psychology and a minimum of two upper-division psychology courses; senior standing is recommended.

PSYC 460 Human Sexuality

3 hours. This course explores human sexuality from psychological, cultural, biological and spiritual perspectives. Topics include the physiological, psychological, and cultural variables associated with the development and manifestation of sexual identity and sexual behavior. Special attention is given to the Christian perspective and response to a highly sexualized culture. Prerequisite: PSYC 150 General Psychology and junior status.

PSYC 465 Seminar Series

1 hour. Graduate-style series designed to prepare students for graduate school courses and provide an in-depth examination of a particular content area within psychology. Prerequisite: upper-division psychology majors only and by permission.

PSYC 475 Field Experience

1-10 hours. Supervised experiences in helping activities in mental health agencies and institutions. A maximum of 3 hours may be applied toward a psychology major. Pass/No Pass. Prerequisite: upper-division majors only and by permission. Recommended: PSYC 381 Counseling or other 300-level psychology course.

PSYC 485 Selected Topics

1-3 hours. A course dealing with various topics, as announced, that represent current faculty interests and competencies and student interest. Prerequisite: PSYC 150 General Psychology.

PSYC 490 Senior Seminar

1 hour. This is a capstone course for the major focusing on the integration of Christianity and psychology and the application of psychological principles and findings in every day settings. Required for all psychology majors. Additional course fee required. Prerequisite: senior status.

PSYC 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

RELI

RELI 215 Topics and Themes in Religion and Theology

3 hours. In this course, students will be introduced to basic tools and scholarly attitudes for thinking about religious and theological topics. The course will draw on a variety of materials (such as texts, practices, and/or archaeology) to examine historical or contemporary issues. Material will be studied not only for academic knowledge but also spiritual and personal growth. Prerequisite: BIBL 100 Bible Survey, BIBL 101 Literature of Old Testament, or BIBL 102 Literature of New Testament

RELI 230 Sociology of Religion

3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to SOCI 230.)

RELI 260 History and Doctrine of Friends

3 hours. This course explores the rich heritage of the Quaker movement in its historical, social, and religious settings. The distinguishing beliefs of Friends and contemporary trends also will be studied, with particular interest in how to apply timeless truths in timely ways.

RELI 270 History & Doctrine of

3 hours. Offered upon sufficient demand by denominational leaders, who supply the appropriate course descriptions.

RELI 275 Field Experience

1 hour. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

RELI 285 Selected Topics

1 hour. Occasional special courses chosen to fit the interests and needs of students and faculty.

RELI 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

RELI 300 History and Theology of Christianity

3 hours. This course introduces students to the Christian faith and to the diverse experiences of Christians within the world context. The course will proceed along the levels of history (where and when did Christianity flourish) and theology (what have Christians believed), as well as society and culture (what has Christian practice looked like). Prerequisite: BIBL 100 Bible Survey, BIBL 101 Literature of Old Testament or BIBL 102 Literature of New Testament.

RELI 310 Christian Apologetics

3 hours. A study of classic and contemporary defenses of the Christian faith, including theistic/atheistic arguments, postmodern assessments of religious belief, issues surrounding the doctrine of the resurrection, the miraculous and religious diversity.

RELI 320 American Women of Faith

3 hours. American Women of Faith is a Christian history course in which issues of gender are central. Students reflect on historical and contemporary experiences of women, particularly as influenced by Christian beliefs and ideology. Such study helps prepare women and men for full participation in the life of their faith communities.

RELI 330 Introduction to the World Christian Movement

3 hours. The biblical basis and history of missions are considered, with a special focus upon the modern missionary movement of the last 200 years.

RELI 340 Christian Classics

3 hours. Certain Christian writings have endured the test of time and have been found to be a rich source of spiritual nourishment. A representative sampling of these significant works representing the life and thought of Christians from the second to the mid-20th century will be considered.

RELI 350 Spiritual Formation

3 hours. An exploration of how people grow and change spiritually. The study integrates biblical insights, classic Christian spirituality, developmental theory, and contemporary individual and corporate practice in spiritual formation. It will critically explore how spirituality relates to vocation, relationships, and the demands of daily living.

RELI 360 Cross-Cultural Christian Outreach

3 hours. Cross-cultural communication in Christian ministry, focusing on the concepts of identification, mutuality, the process of cultural change from a biblical perspective, and strategies for cross-cultural outreach.

RELI 380 Christian Beliefs

3 hours. As an introduction to Christian theology, this course considers the basic doctrines of the Christian faith and their application to contemporary living.

RELI 385 Quaker Seminar

1 hour. Designed to address topics of interest to Friends and matters of Quaker faith and practice. Topics will vary from semester to semester, and include sacramentality, worship and ministry, peace and social work, evangelism, leadership, decision making, and Christian testimonies.

RELI 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

RELI 401 Christianity in History I

3 hours. The development of Christianity from its appearance within the Greco-Roman world through the medieval period, and its influence as a base for culture in the West. (Identical to HIST 401.)

RELI 402 Christianity in History II

3 hours. Christianity's development from the dawn of the Protestant Reformation through its global spread during the modern era, observing its historical context and relationships to the surrounding cultures. (Identical to HIST 402.)

RELI 430 Sociology of Religion

3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship

of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to SOCI 430.)

RELI 440 World Religions

3 hours. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Islam, Hinduism, and contemporary kinds of alternative religion. (Identical to INTL 440.)

RELI 460 Issues in Contemporary Missions

3 hours. Selected movements, trends, and leaders of contemporary Christian missions are studied. Lectures, readings, and learning activities are chosen to provide tools and methods for continuing education in missiology.

RELI 475 Field Experience

1 hour. Supervised experience in the discipline including internships and practica required for professional programs. This advanced experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

RELI 485 Selected Topics

2-3 hours. Occasional special courses chosen to fit the interests and needs of students and faculty.

RELI 490 Contemporary Religious Life

3 hours. The movement, trends, and leaders of contemporary Christianity are studied in their social setting. Lectures and readings are chosen to provide tools and methods for thoughtful and continuing interpretation of religious life. As this is a senior capstone course, students must be juniors or seniors.

RELI 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

SOCI

SOCI 150 Principles of Sociology

3 hours. An introduction to the study of society, including the study of the shared relationships that create social organization and social processes of society. Required for sociology majors and for admission into the social work major.

SOCI 220 Men and Women in Society

3 hours. A study of how societies construct gender similarities and differences. The impact of gender upon individuals and social institutions, and the implications of a sociological understanding of gender for the Christian faith will be explored.

SOCI 223 Sociology of Families

3 hours. A study of marriage and the family from a sociological perspective, including historical, cross-cultural, and economic backgrounds. A Christian faith perspective will emphasize the worth of people, the importance of the family as a place of nurture, and the gift of marriage. (Identical to HLTH 223.)

SOCI 230 Sociology of Religion

3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to RELI 230.)

SOCI 275 Exploratory Agency Experience

3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Pass/No Pass. Prerequisite: instructor's permission.

SOCI 285 Selected Topics

1-3 hours. A seminar dealing with topics of special interest to students and current faculty.

SOCI 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

SOCI 303 International Conflict and Peace

3 hours. Why do wars and conflicts occur and how do we prevent these? This course considers the causes of global insecurity (from wars between countries to transnational terrorism to genocide) and examines the various approaches to their resolution, including the creation of international institutions and military alliances. Special emphasis will be placed on the role of religion in global political conflict.

SOCI 310 Cultural Anthropology

3 hours. A comparative study of world societies and their ways of life.

SOCI 331 Crime and Deviance

3 hours. An introduction to the study of deviance and criminology, including theoretical and paradigms and research.

SOCI 333 Juvenile Delinquency

3 hours. A study of the causes and nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs. Prerequisite: SOCI 150 Principles of Sociology and SOCI 331 Crime and Deviance, or instructor's permission.

SOCI 339 Restorative Justice

3 hours. This course will cover the theological and historical backgrounds of alternative systems of justice, and the criminological principles undergirding a variety of restorative justice programs, particularly community policing, problem-solving courts and community corrections, and will apply an international comparative component as well as a study the programs' effectiveness. Prerequisites: SOCI 150 Principles of Sociology, SOCI 331 Crime and Deviance, and SOCI 333 Juvenile Delinquency.

SOCI 340 Statistical Procedures

3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. Recommended for the sophomore or junior year. Required for sociology and social work majors. (Identical to SWRK 340) Prerequisites: SOCI 150 Principles of Sociology and high school algebra.

SOCI 363 Social Inequality

3 hours. Examines the nature, causes, and consequences of inequality in society. An understanding of how social resources are distributed, and the resulting distribution of life chances, is central to understanding the fundamental bases of social order and social organization. This course takes a sociological approach to the study of inequality in which we argue that inequality is a characteristic of societies, not individuals.

SOCI 366 Social Change

3 hours. Explores socio-historic contexts, sources, and patterns related to social change, such as globalization, social movements, technological innovation, economic and political forces. Gives attention to understanding the role of individuals and groups in social change; moving toward a reflective, informed way of thinking and living as thoughtful Christians committed to justice.

SOCI 370 International Economic Development

3 hours. This course introduces students to causes and consequences of 'the wealth of nations.' Students will learn theories of economic growth and poverty alleviation. Topics to be covered include: globalization, education, international trade, holistic conceptions of development, and the role of institutions. (Identical to INTL 370 and SOCI 370.) Prerequisite: ECON 212 Principles of Microeconomics

SOCI 373 Social Theory

3 hours. A critical study of major social philosophers from Comte to the present. Required for sociology majors. (Identical to SOCI 373) Prerequisite: SOCI 150 Principles of Sociology or PHIL 150 Introduction to Philosophy.

SOCI 380 Race and Ethnicity

3 hours. A study of the historical and socioeconomic factors experienced and lived by people of differing racial and ethnic backgrounds in the United States. Specific attention is placed on the social construction of race, social attitudes and past and present racial issues. Prerequisite: SOCI 150 Principles of Sociology or instructor's permission.

SOCI 390 Research Methods

3 hours. An overview of quantitative and qualitative research methods in the social sciences. Students will design a research project. Required for sociology and social work majors. Prerequisites: SOCI 150 Principles of Sociology, SOCI 373 Social Theory, and SOCI 340 Statistical Procedures or PSYC 240 Statistical Procedures.

SOCI 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

SOCI 430 Sociology of Religion

3 hours. A sociological examination of the meaning and function of religion in human society. Gives attention to the development of religious organization, the relationship of religion to class and politics, the nature of the sacred, dimensions of religiosity, and denominational diversity in the United States. (Identical to RELI 430.)

SOCI 463 International Trade and Finance

3 hours. Course provides an overview of international trade and finance. Trade theory is applied to understanding the direction of trade flows, the impact of trade barriers, and the role of bilateral and multilateral trade negotiations. The international finance portion of the course will consider the balance of payments, foreign exchange rates, and the globalization of financial markets. Throughout the course attention will be paid to global and national institutional arrangements which determine and influence trade and financial flows. Prerequisites: ECON 211 Principles of Macroeconomics and ECON 212 Principles of Microeconomics.

SOCI 475 Internship

3-6 hours. Supervised experiences in private and public social agencies. Students may opt for 3 hours of SOCI 475 Internship as part of their concentration, or 3 hours of SOCI 475 Internship as an elective in the major. Pass/No Pass. Prerequisites: upper-division majors and by permission.

SOCI 480 Senior Research Project

3 hours. For sociology majors only, this course requires students to complete a research project. With an expectation of a literature review, data collection and analysis, students will produce a piece of original research that is worthy of publication and/or presentation. Prerequisite: SOCI 390 Research Methods.

SOCI 485 Selected Topics

1-3 hours. A special-interest course that addresses current topics in the field of sociology. Course offerings depend on current faculty competencies and student interest. Previous offerings have included a Christian response to the contemporary family, criminal justice, cross-cultural education, death and dying, Native American cultures, sociology of religion, sociology of adolescence, and sociology of literature. Prerequisites: SOCI 150 Principles of Sociology and upper-division majors.

SOCI 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

SPAN

SPAN 101 Introductory Spanish

4 hours. An integrated introductory study of Spanish. Listening, speaking, reading, and writing are all integral to learning the language. Cultural aspects of Spain and Latin America are also presented as essential components. Three class sessions and one laboratory per week. Prerequisite: placement exam required.

SPAN 102 Elementary Spanish

4 hours. An integrated introductory study of Spanish. Listening, speaking, reading, and writing are all integral to learning the language. Cultural aspects of Spain and Latin America are also presented as essential components. At the end of SPAN 102, students should have novice high proficiency as defined by the American Council of the Teaching of Foreign Languages (ACTFL). Three class sessions and one laboratory per week. Prerequisite: SPAN 101 Introductory Spanish I or placement by exam.

SPAN 201 Intermediate Spanish

4 hours. A proficiency-centered approach to the study of Spanish, with extensive practice in listening, speaking, reading, and writing. Three class sessions and one laboratory per week. Prerequisite: SPAN 102 Introductory Spanish II or placement by exam.

SPAN 202 Intermediate Spanish

4 hours. A proficiency-centered approach to the study of Spanish, with extensive practice in listening, speaking, reading, and writing. At the end of SPAN 202, students should have intermediate mid proficiency as defined by ACTFL. Three class sessions and one laboratory per week. Prerequisite: SPAN 201 Intermediate Spanish I or placement by exam.

SPAN 210 Spanish for Medical Personnel

3 hours. An intensive introduction to Spanish medical vocabulary, focusing on listening and speaking skills likely to be used in a clinical setting, and on the cultural practices of Hispanic populations in the United States. Prerequisite: One year of Spanish study prior to college, minimum score of 100 on Spanish placement exam, or SPAN 101.

SPAN 275 Field Experience

1-10 hours. Supervised experience in a situation demanding extensive use of Spanish. Admission and credit hours determined by instructor. Pass/No Pass.

SPAN 285 Selected Topics

2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

SPAN 295 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

SPAN 301 Intermediate/Advanced Spanish

4 hours. A thorough review of Spanish to develop intermediate high proficiency, as defined by ACTFL. Activities include reading authentic texts, writing in a variety of styles, and developing strategies for communication. Three class sessions and one laboratory per week. Prerequisite: SPAN 202 Intermediate Spanish II or placement by exam.

SPAN 302 Advanced Spanish

4 hours. A thorough review of Spanish to develop intermediate high proficiency, as defined by ACTFL. Activities include reading authentic texts, writing in a variety of styles, and developing strategies for communication. Three class sessions and one laboratory per week. Prerequisite: SPAN 301 Intermediate/Advanced Spanish I or placement by exam.

SPAN 303 Spanish for Heritage Speakers

4 hours. This course examines the Latino populations of the U.S. and develops academic Spanish for those who learned Spanish outside of a formal school setting. Taught in Spanish. Prerequisite: Placement by testing or instructor permission.

SPAN 340 Spanish Culture and Civilization

3 hours. A one-semester introduction to the cultures and civilizations of the Iberian Peninsula. Students continue to develop skills toward advanced proficiency as defined by ACTFL. Activities to include reading authentic texts and listening to and interacting with native speakers of Spanish. Areas of study may include history, art, music, the role of religion, governmental systems and gender differences. Taught in Spanish. Prerequisite SPAN 302 or instructor's permission.

SPAN 350 Latin American Culture and Civilization

3 hours. n introduction to the cultures and civilizations of Latin America. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Activities include reading authentic texts, field trips, and listening to native speakers. Areas of study may include history, art, music, the role of religion, governmental systems, and gender differences. Taught in Spanish. Corequisite/Prerequisite: SPAN 302 Intermediate/Advanced Spanish II or concurrent enrollment in SPAN 302 Intermediate/Advanced Spanish II or instructor's permission.

SPAN 375 Cultural Field Experience

2 hours. Supervised experience in a cultural setting that contributes to the educational goals of the student. Pass/No Pass. Prerequisites: permission of advisor and the academic dean.

SPAN 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

SPAN 410 Introduction to Spanish Literature

3 hours. A one-semester introduction to Spanish peninsular literature. This course introduces students to selected masters and periods of Spanish literature and reflects on matters of faith and revealed in the pieces studied. Students continue to develop skills toward advanced proficiency as defined by ACTFL. Taught in Spanish. Prerequisite: SPAN 302 Advanced Spanish or equivalent.

SPAN 420 Introduction to Latin American Literature

3 hours. This course introduces students to selected masters and periods of Latin American literature and reflects on matters of faith as revealed in the pieces studied. Students continue to develop skills toward advanced proficiency, as defined by ACTFL. Taught in Spanish. Prerequisite: SPAN 302 Advanced Spanish or equivalent.

SPAN 475 Field Experience

1-10 hours. Supervised experience in a situation demanding extensive use of Spanish. Admission and credit hours determined by instructor. Pass/No Pass.

SPAN 480 Senior Capstone

3 hours. This course synthesizes all the student's skills in Spanish. It includes a portfolio of written work, journal kept while abroad and reflection paper completed upon return to U.S., an oral proficiency interview, and a service-learning project. Meetings with professor focus on integration of faith and learning. Preferably taken after semester abroad.

SPAN 485 Selected Topics

2-4 hours. Occasional special courses chosen to fit the needs and interests of students and faculty.

SPAN 495 Individualized Study

1-4 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

SWRK

SWRK 180 Introduction to Social Work

3 hours. This course serves as an introduction to the philosophy, historical development and current practices of the social work profession. Specifically, the knowledge base, values, skills, practices, settings, educational and career opportunities of the profession will be examined. Emphasis is placed on developing awareness of the scope of the profession using a scientific, analytic approach to service delivery and evaluation; relating generalist social work practice to social welfare systems; economic and social justice; and work with diverse, oppressed and at-risk populations. This course includes community service opportunities and/or social service agency tours. This course is required for those majoring in social work and must be taken prior to entrance into the major.

SWRK 210 Intro to Criminal Justice

3 hours. This course will provide students with an introduction and synopsis of the system of criminal justice operated in the United States today. The course will provide an overview of the philosophy of criminal law, theories of deviance and of the nature and extent of crime in America. The theory, structure, and operation of each of the principle components of the Criminal Justice System (i.e., law enforcement, courts, and corrections) will be examined in detail.

SWRK 220 Writing for Social Work Practice

3 hours. This course will introduce students to writing for professional social work practice. Course content will cover APA style, research writing, social work recording and documentation, and other forms of professional social work writing. The intent of this course is to prepare student for future coursework, field placement, and social work practice through the strengthening of students' writing competency.

SWRK 275 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

SWRK 285 Selected Topics

1-3 hours. A special-interest class offered on a onetime basis addressing a subject in the field that is of general interest to the university community. Prerequisite: by permission.

SWRK 290 Diversity Issues in Social Work

3 hours. This course introduces students to issues of diversity and difference in preparation for culturally competent social work practice. Students will learn about vulnerable and marginalized groups and the environmental systems which impact them. Special attention is given to issues of intersectionality, bias, discrimination, power and privilege, and oppression. Students will explore their own personal identity and how their views, beliefs, values and behaviors may support or hinder future social work practice with diverse populations.

SWRK 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

SWRK 321 Family Violence

3 hours. This course will provide an overview of the different types of violence that occur within family systems. Attention will be given to the intersection of diverse identities and violence, factors with society that contribute to violence, and societal responses to violence within society. Prerequisites: PSYC 150, SOCI 150 or SWRK 210 and at least sophomore level status or instructor permission.

SWRK 322 Death, Loss, and Grief

3 hours. This course will introduce students to multidisciplinary approaches to death, loss, and grief in the context of the biopsychosocialspiritual model. Topics will include the human response to loss throughout the lifespan, societal responses to dying and death, ethical issues related to dying and death, suicide, and advanced planning for death and dying. Prerequisites: PSYC 150 or SOCI 150 and at least sophomore level status or instructor permission.

SWRK 331 Human Behavior in the Social Environment

3 hours. This course provides and seeks to apply a basic framework for creating and organizing knowledge of human behavior during the lifespan. Social systems, human development theories, and strengths approaches are critically examined to foster understanding of individual, family, group, organizational, and community behaviors and the impact of the larger environment on these systems. Special attention is given to the impact of human diversity, discrimination, and oppression on the ability of individuals, families, groups, organizations, and communities to reach or maintain optimal health and well-being. Required for majors. Prerequisites: PSYC 150 General Psychology and SOCI 150 Principles of Sociology or permission of instructor.

SWRK 333 Human Rights and Social Justice

3 hours. This course introduces human rights and social justice concepts in the context of social work history, values, ethics, and practice. Related concepts of oppression, power, privilege, and inequity will also be covered. Prerequisites: Formal admission to the social work program or a declared minor in social welfare.

SWRK 340 Statistical Procedures

3 hours. Applied statistics for the social and behavioral sciences. Emphasis is placed on statistical logic and decision making. Recommended for the sophomore or junior year. Required for sociology and social work majors. (Identical to SOCI 340.) Prerequisites: SOCI 150 Principles of Sociology and high school algebra.

SWRK 370 Developing Social Work Professional

3 hours. This theory-based course develops knowledge and skill for the application of various social work practice theories in working with children, individuals, families and groups. Furthermore, this course assists the students in necessary self-exploration as it relates to future ethical social work practice. Prerequisites: PSYC 150 General Psychology, SOCI 150 Principles of Sociology, SWRK 180 Introduction to Social Work, and formal admission into the social work program.

SWRK 391 Social Work Practice I

3 hours. A study of generalist social work practice with individuals. Microlevel theory, skills, and interviewing techniques are applied to generalist social work. The course will cover theory and techniques of person-centered case management that are specifically applicable to work with individuals. A prerequisite for Field Experience/ Practicum I (SWRK 475). Required for majors. Additional course fee is required. Prerequisites: PSYC 150 General Psychology, SOCI 150 Principles of Sociology,

SWRK 180 Introduction to Social Welfare, declared social work majors only, and formal admission into the social work program.

SWRK 392 Social Work Practice II

3 hours. A study of mezzo-level generalist social work practice with families and groups. Attention is given to a systems framework of generalist social work practice, with a particular focus upon assessment and development of appropriate intervention strategies. A prerequisite for SWRK 476 Field Experience/Practicum II. Required for majors. Prerequisite: SWRK 391 Social Work Practice I and declared social work majors only.

SWRK 393 Social Work Practice III

3 hours. An overview of generalist social work methods practiced with organizations and communities. Attention is given to assessment, planning, implementation, and evaluation of macro-level systems. Additional course fee required. A prerequisite for SWRK 477 Field Experience/Practicum III. Required for majors. This class is open to declared social work majors only. Prerequisite: SWRK 392 Social Work Practice II.

SWRK 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings in the spring followed by travel to various locations throughout the world in May. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Offered at the discretion of the department. Upper division students, by permission. Additional course fee is required.

SWRK 400 Child Welfare

3 hours. Basic principles of child welfare, with emphasis upon the services for families and children needing various types of support. Focus is on developing a knowledge and understanding of child welfare and supportive services. Prerequisite: SWRK 180 Introduction to Social Work or permission of instructor.

SWRK 410 Social Work with Older Adults

3 hours. This course provides a general introduction to the study of aging, older people and their adaptation to a rapidly changing world from a social work perspective. It examines a wide variety of physical, cognitive and psycho-social changes that occur as one ages, how these factors influence interaction with social/physical environments, and how the older person is, in turn, affected by these interactions. Social work perspectives, values and interventions with this population will be emphasized. Prerequisite: SWRK 180 Introduction to Social Work and formal admission to the social work program.

SWRK 420 Mental Health and Substance Abuse

3 hours. This course focuses on substance abuse and mental health within American society, with a special emphasis on the connection to the criminal justice system. Students will learn about the major DSM-V mental disorders and treatment for mental illness. Substance addiction, treatment, and the social impact drugs on society will be examined. An overview of current issues involving mentally impaired persons in the U.S. criminal justice system will also be explored. Prerequisites: SWRK 180 Introduction to Social Work, SWRK 331 Human Behavior in the Social Environment, and SWRK 391 Social Work Practice I or declared minor in criminal justice.

SWRK 440 Social Work Research Methods

3 hours. This course provides basic knowledge about research methods as it applies to social work practice. This course is designed to survey the basic processes of research methodology as practiced in the social sciences. Topics include research design, problem formulation, measurement, sampling, data analysis, and ethics in research. This course introduces the theory and application of basic social scientific research techniques, including qualitative and quantitative methods, data collection and statistical thinking. Topics specific to social work research such as agency-based research, program evaluation, outcomes evaluation and single-subject design will be emphasized. The use of research as one tool in the professional repertoire of skills available to the social work generalist and evaluation of practice are emphasized. This course is designed to increase students' ability to read for understanding, critically evaluate, and better utilize the social work research literature. At the same time it is designed to prepare students to begin work on the senior research paper/project. Finally, this course demonstrates the need for and encourages the use of research in social work practice.

SWRK 460 Social Policy

3 hours. This course provides an in-depth analysis of how human needs and values are translated into social policy on community, national and international levels. Special attention is given to the ways in which values and power interests influence the creation of social policy. Emphasis is placed on the history of social welfare and related policies, the process of policy formation and analysis, and impact of policy on at-risk populations. Implications for generalist social work practice and services will be explored through a variety of class activities. Required for social work majors. Additional course fee is required. Prerequisites: SWRK 180 Introduction to Social Welfare and SWRK 475 Field Experience/Practicum I, or the instructor's permission.

SWRK 475 Field Experience/Practicum I

3 hours. The first course of the field experience/practicum sequence will emphasize micropractice concepts and address orientation to the agency environment; student roles and responsibilities; agency roles and responsibilities; confidentiality issues; nature and process of supervision; establishing goals and objectives; models of integrating classroom learning with the field practicum; person-in-environment; interviewing techniques; identification of research and policy issues; work with special populations and injustices; process recordings; research methods in the agency; and ethical conduct/NASW code of ethics. Required for majors. Recommended spring of the junior year. Additional course fee required. Prerequisites: SWRK 391 Social Work Practice I and declared social work majors only.

SWRK 476 Field Experience/Practicum II

3 hours. Ideally, SWRK 476 and 477 will occur in a full-year practicum during the student's senior year. The second course in the field experience/practicum sequence will build upon knowledge and experience acquired in SWRK 475 and emphasize mezzo-practice concepts. Course topics will include work with small groups, families; integrating research and evaluation methods in the field experience/practicum; agency evaluation and analysis; referral processes; work with special populations/injustices; ethical dilemmas; ethical conduct/NASW code of ethics; agency recording process; and development of a student portfolio of practicum projects and skills. Required for majors. Additional course fee required. Prerequisites: SWRK 475 Field Experience/Practicum I, SWRK 392 Social Work Practice II and declared social work majors only.

SWRK 477 Field Experience/Practicum III

3 hours. Ideally, SWRK 476 and 477 will occur in a full-year practicum during the student's senior year. The third course in the field experience/practicum sequence will provide further depth and integration of theory, classroom learning, and experience within the student's field experience/practicum, building on concepts developed in SWRK 476 and emphasizing macropractice concepts. Additional topics will include work with agency boards, communities, governmental systems; implementation of a research project in the agency; community analysis; termination with clients and the agency; addressing social inequities in the student's field experience/practicum; work with special populations and injustices; policy issues; and ethical conduct/NASW code of ethics. Required for majors. Additional course fee required. Prerequisites: SWRK 476 Field Experience/Practicum II and declared social work majors only.

SWRK 485 Selected Topics

1-3 hours. A special-interest class that addresses a relevant subject in the field of social work. Previous and projected subjects include, but are not limited to, administration and community planning; cognitive and behavioral theories; crisis and trauma recovery; current issues in social work; medical and mental health services; systemic and ecologic theories; social policy; and treating addictive behaviors. Prerequisite: SWRK 180 Introduction to Social Welfare.

SWRK 490 Senior Seminar

3 hours. This course focuses on consolidating substantive knowledge regarding (1) social welfare policy and services, (2) human behavior in the social environment, (3) the structure and function of communities and human service organizations, (4) methods of inducing change across the micro-, mezzo, and macro-levels of human experience, (5) methods of scientific inquiry necessary to assess human potential, problems, and the effectiveness or outcomes of professional interventions, (6) the professional presentation of "self" as a social worker, (7) the integration or interaction of various psycho-social theories with faith and learning, and (8) professional applications of the NASW Code of Ethics. Prerequisite: SWRK 392 Social Work Practice II.

SWRK 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

THEA

THEA 100 Acting I: Fundamentals

3 hours. Study of basic principles of acting, including survey of acting theories, performance of scenes, and critical observation and analysis of productions. This course requires additional outside-of-class time for rehearsal and performance of selected material.

THEA 105 Technical Theatre Practicum

1 hour. The practical application of technical techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's approval.

THEA 115 Acting Practicum

1-3 hours. The practical application of acting techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's permission.

THEA 130 Stagecraft

3 hours. Balancing lecture with hands-on experience, the course offers a survey of materials, processes, and equipment in the fabrication, assembly, painting, rigging, and installation of stage scenery, properties, and lighting. Additional course fee is required.

THEA 135 Design Practicum

1-3 hours. The practical application of design techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's permission.

THEA 145 Management Practicum

1-3 hours. The practical application of theatre and stage management techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's permission.

THEA 155 Directing Practicum

1-3 hours. The practical application of directing techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's permission.

THEA 160 Improvisational Theatre Workshop

2 hours. Focus on development of improvisational skills through structured and directed psychological, physical, and social exercises. May be repeated once for credit.

THEA 165 George Fox University Players: Drama Touring Troupe

1 hour. Participation in theatre's traveling drama ministry ensemble. Students must remain with the troupe the entire year. May be repeated to a maximum of four hours credit. Pass/No Pass. Prerequisite: audition and invitation.

THEA 200 Acting II: Stage Voice and Movement

3 hours. A study of the basic principles and techniques of increasing vocal and physical awareness and production on the stage, including life study projects and an introduction to basic theoretical approaches to voice and movement. This course requires additional outside-of-class time for rehearsal and performance of selected material. Prerequisites: THEA 100 Acting I - Fundamentals and instructor's permission.

THEA 240 Understanding Drama

3 hours. A study of significant plays from the classical period to the present, both as literary works and staged productions, the goal being a deeper understanding and appreciation of drama as a symbolic form. Primary focus is on literary values, with attention also given to the constraints and interpretations embodied in the staging, acting, and directing of a play. (Identical to THEA 240.)

THEA 275 Field Experience

1-10 hours. Offered summers only. Supervised experience with off-campus professional, community, church, or camp theatre productions or drama programs. The experience may include acting, directing, technical production, design, publicity, management, therapy, or any combination thereof. Pass/No Pass. Prerequisite: instructor's permission.

THEA 285 Selected Topics in Theatre

3 hours. Characteristically offered as part of May Term. Special courses offered occasionally to meet the needs and interests of students, professors, and visiting professors, specifically including technical theatre.

THEA 295 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

THEA 300 Acting III: Contemporary Scene Study

3 hours. A study of the acting and philosophical challenges that face contemporary actors in the professional world of theatre. Through in-depth scene study, structural analysis, in-class presentations, and outside research the student is exposed to the theatre community's various artistic responses to recent political and social movements. This course requires additional outside-of-class time for rehearsal and performance of selected material. Prerequisite: instructor's permission.

THEA 305 Technical Theatre Practicum

1 hour. The practical application of technical techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's approval.

THEA 315 Acting Practicum

1-3 hours. The practical application of acting techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's permission.

THEA 330 Stage Lighting and Sound

3 hours. An introductory study of the principles of stage lighting and sound design for theatrical production. The emphasis will be on both design and operation of sound and lighting equipment. Students will apply theory through a number of projects. Additional course fee is required. Prerequisite: THEA 130 Stagecraft or instructor' permission.

THEA 335 Design Practicum

1-3 hours. The practical application of design techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's permission.

THEA 340 Theatre as Ministry

3 hours. A consideration of theatre skills as tools for meeting human needs in essentially nontheatrical environments. Focus on drama as a service medium rather than as strictly an entertainment vehicle.

THEA 345 Management Practicum

1-3 hours. The practical application of theatre and stage management techniques in connection with university theatre main stage productions. Open to any student taking part in a university theatre production. May be repeated for credit. ¿Prerequisite: instructor's permission.

THEA 350 Music Theatre Performance

3 hours. An introduction to the acting, dance, and vocal techniques required for music theatre performance. Through in-depth scene study, vocal training, dance, and in-class performances, the student will be introduced to the various artistic challenges inherent in music theatre since its inception. This course requires additional outside-of-class time for rehearsals and performance of selected material. Additional course fee is required. (Identical to MUSI 350.) Prerequisites: THEA 100 Acting I - Fundamentals and MUSA 105 VC Applied Voice or MUSI 125T Music Theatre or MUSI 325T Music Theatre.

THEA 355 Directing Practicum

1-3 hours. The practical application of directing techniques in connection with university theatre productions. Open to any student taking part in a university theatre production. May be repeated for credit. Prerequisite: instructor's permission.

THEA 360 Improvisational Theatre Workshop

2 hours. Focus on development of improvisational skills through structured and directed psychological, physical, and social exercises. May be repeated once for credit.

THEA 365 George Fox University Players: Drama Touring Troupe

1 hour. Participation in theatre's traveling drama ministry ensemble. Students must remain with the troupe the entire year. May be repeated to a maximum of four hours credit. Pass/No Pass. Prerequisite: audition and invitation.

THEA 370 Directing for Theatre

3 hours. An introduction to the director's role in theatre through historical and artistic research, comprehensive structural analysis, scene work, the creation of composition, stage pictures, blocking, rhythm, tempo, and an exploration of the working relationships with actors and design teams. This course requires additional outside-of-class time for rehearsal and performance of selected material. Prerequisite: THEA 100 Acting I - Fundamentals.

THEA 380 Costume Design

3 hours. A study of the elements and principles of costume design for the theatre. Students will develop skills in play analysis for costuming, basic rendering skills, and period research. The class will include an introduction to the various media used in communicating a costume design concept. Additional course fee is required. Prerequisite: THEA 130 Stagecraft or instructor's permission.

THEA 390 Playwriting

3 hours. This course is designed to introduce basic playwriting, in particular elements of the playwright's craft: dramatic action, plot, characterization and theatricality. The course functions as a playwriting workshop with students presenting exercises in class to be discussed by their peers. Utilizing techniques learned, students will complete a draft of a one-act play.

THEA 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

THEA 400 Acting IV: Acting Shakespeare

3 hours. An in-depth study of the world and words of Shakespeare. Through classroom exercises, scene study, and outside research the student is exposed to how word choice, syntax, and grammar informs the actor, influences action, exposes character, and creates the world of play. This course requires additional outside-of-class time for rehearsal and performance of selected material. Prerequisite: instructor's permission.

THEA 420 Theatre Management

3 hours. This course introduces students to the diverse issues involved in managing a theatre company. It includes an examination of marketing and promotions, financial management, and organizational structures of various types of theatres, with special emphasis given to stage management. Students will be able to apply learned principles to hands-on projects and presentations. Prerequisite: THEA 130 Stagecraft or instructor's permission.

THEA 430 Scenic Design

3 hours. An introductory study of the theories and skills of stage design with an emphasis on script analysis and good visual research. Assignments will guide the student to learning the practices of drafting, perspective drawing, watercolor rendering, and model building. Students will apply these learned techniques and research skills to several projects. Additional course fee is required. Prerequisite: THEA 130 Stagecraft or instructor's permission.

THEA 440 Theatre History

3 hours. A broad survey of the history of theatre dedicated to the research, study, and analysis of the innovators and revolutionaries in playwriting theory, acting, directing, design, and production.

THEA 475 Field Experience

1-10 hours. Offered summers only. Supervised experience with off-campus professional, community, church, or camp theatre productions or drama programs. The experience may include acting, directing, technical production, design, publicity, management, therapy, or any combination thereof. Pass/No Pass. Prerequisite: instructor's permission.

THEA 485 Selected Topics

3 hours. Characteristically offered as part of May Term. Special courses offered occasionally to meet the needs and interests of students, professors, and visiting professors, specifically including technical theatre.

THEA 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

THEO

THEO 101 I Believe

3 hours. This two course sequence (THEO 101 and 102, offered fall and spring each school year) introduces students to Christian life, thought, practice, and spirituality through the Apostles' Creed. Over the course of a year, students will engage with foundational questions such as: What is belief and knowledge? Who is God? Who is Jesus Christ? Why the cross and resurrection? Why the church? Who is the Spirit? Where did life come from and what is its end? Through different learning styles and forms of engagement, various communities, and diverse global perspectives, students are invited to encounter the breadth and depth of an ancient faith that continues to transform lives today across the world.

THEO 102 I Believe

3 hours. This two course sequence (THEO 101 and 102, offered fall and spring each school year) introduces students to Christian life, thought, practice, and spirituality through the Apostles' Creed. Over the course of a year, students will engage with foundational questions such as: What is belief and knowledge? Who is God? Who is Jesus Christ? Why the cross and resurrection? Why the church? Who is the Spirit? Where did life come from and what is its end? Through different learning styles and forms of engagement, various communities, and diverse global perspectives, students are invited to encounter the breadth and depth of an ancient faith that continues to transform lives today across the world. Prerequisite: THEO 101 I Believe

WRIT

WRIT 100 English Skills

3 hours. A course to develop collegiate-level learning and written communication skills, focusing on reading speed and comprehension, vocabulary development, and a review of the standards of sentence structure, punctuation, grammar, and usage. Prerequisite: by placement only.

WRIT 103 Individualized English Skills

1-2 hours. Individualized instruction in spelling, reading, composition, and research skills necessary for effective college learning. Pass/No Pass.

WRIT 110 College Writing

3 hours. A course concentrating on expository writing, with an introduction to basic research methods. Argumentative writing is also introduced.

WRIT 111 Writing Portfolio Development

3 hours. A course concentrating on expository writing, with an introduction to basic research methods. Argumentative writing is also introduced. Students must create and submit a passing writing portfolio, one component of the writing proficiency milestone.

WRIT 200 Studies in Writing

3 hours. Introduces important concepts in the study of writing. Students will read and respond to writing and rhetorical theory, and will read, discuss, and produce written analyses of theories in the study of writing. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 210 Practical Grammar and Editing

3 hours. This course helps those who want to understand and to be able to explain to others what can be done to make writing correct, clear, and precise. Focuses on constructing, editing, and correcting sentences and paragraphs. This is not a remedial course.

WRIT 230 Introduction to Journalism

3 hours. A course designed to provide fundamental knowledge and experience in reporting, writing, and editing news for the print media. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 240 Technical Writing

3 hours. Introduces students to the principles and procedure of technical writing; attention to analyzing audience and purpose, organizing information, designing graphic aids, and writing such specialized forms as abstracts, instructions, and proposals. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 250 Creative Nonfiction

3 hours. A workshop approach to writing creative nonfiction. Introduces students to the many voices, styles, and structures of the creative essay. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 275 Field Experience

1 hour. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course. Prerequisite: instructor's permission.

WRIT 285 Selected Topics

3 hours. Occasional special courses created to fit the needs and interests of faculty, visiting professors, and students.

WRIT 310 Professional Writing

3 hours. This course explores trends in media convergence, focusing as well on the ways reporters, editors, and designers create stories for the web. Particular emphasis will be on web-based story design, the coordination of text and art, and the creation of stories for a variety of new media outlets. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 330 Magazine and Feature Writing

3 hours. A workshop approach to writing feature articles and other shorter nonfiction forms for periodicals. Student-produced material is submitted to various publications as part of course expectations. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 360 Writing Fiction

3 hours. A workshop approach to writing fiction. Students write and prepare for publication original works. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 370 Writing Poetry

3 hours. A workshop approach to writing poetry. Students write and prepare for publication original works. Prerequisite: Successful completion of the college writing competency, enrollment in the William Penn Honors Program, or instructor permission.

WRIT 390 Playwriting

3 hours. This course is designed to introduce basic playwriting, in particular elements of the playwright's craft: dramatic action, plot, characterization and theatricality. The course functions as a playwriting workshop with students presenting exercises in class to be discussed by their peers. Utilizing techniques learned, students will complete a draft of a one-act play.

WRIT 399 Cross-Cultural Experience

3 hours. This course offers in-depth discipline specific cross-cultural study designed to enhance the intercultural emphasis of various academic majors. The course includes class meetings followed by travel to various locations throughout the world. Students will use core disciplinary knowledge to serve, learn and interact with other cultures. Additional course fee is required.

WRIT 470 Journalism II

3 hours. Students hone journalistic skills in areas such as interviewing techniques, cultivating sources, investigative reporting, and editing and layout. Prerequisite: WRIT 230/JOUR 230 Introduction to Journalism or instructor's permission.

WRIT 475 Field Experience

1-3 hours. Supervised experience in the discipline including internships and practica required for professional programs. This introductory experience must have an on-site

supervisor and/or a departmental instructor overseeing, designing, and evaluating the content of the course.

WRIT 485 Selected Topics

3 hours. Occasional special courses created to fit the needs and interests of faculty, visiting professors, and students.

WRIT 490 Senior Experience

3 hours. Students will choose to research and write a senior thesis, working with a faculty member in their area of interest; or will complete a service project in a community organization, in a school classroom, or in another identified literacy program; or will complete a professional internship; or will create a portfolio of written work. Prerequisite: Senior Standing

WRIT 495 Individualized Study

1-3 hours. Individualized study or supervised research in an area of special interest to the student which is outside the regular offerings of the major. Additional course fee (per credit) is required.

Undergraduate Admissions

The Office of Undergraduate Admissions, located on the second floor of the Stevens Center, serves students planning to enroll in traditional undergraduate programs on the Newberg campus. Degree completion admissions, located in the Portland Center, assists students seeking enrollment in the adult undergraduate degree-completion programs. Admissions counselors are available on both the Portland Center and Newberg campus to assist students.

Basis of Undergraduate Admission

The university admits applicants who evidence academic interests and ability, moral character, social concern, and who would most likely profit from the curriculum and Christian philosophy of George Fox University. These qualities are evaluated by consideration of each applicant's academic record, test scores, recommendations, writing sample, and participation in extracurricular activities. Applicants with a criminal record may be required to submit additional official paperwork. Admission is possible for fall or spring semester.

George Fox University does not discriminate against students on the basis of race, color, national or ethnic origin, gender, age, disability, or any other status to the extent prohibited under applicable nondiscrimination law in the administration of its admission policies, scholarship and loan programs, educational programs, athletics programs, co-curricular activities, or other university-administered programs.

Admission Procedures for Freshmen

In order to provide a solid foundation for college-level work, it is recommended that the applicant present the equivalent of 16 academic units from an approved high school. The following units are suggested: English, 4; social studies, 2; science, 2; and mathematics, 3.

Approximately 90 percent of the freshman class enroll with an A or B high-school grade average. The Admissions Committee may offer provisional admission to students with lower high school grades or low entrance examination scores.

Procedures

1. Apply online and visit our admissions page for information and application requirements.
2. Complete the Application for Admission. A \$40 application fee will be due at the time of a submitted online application (if after the Early Action Deadline, Nov. 1). The postmark deadlines are: Nov. 1 for Early Action, Jan. 15 for Priority Deadline, and Nov. 1 for spring semester.
3. Request an official transcript of academic credit from the secondary school last attended.
4. Have one recommendation form completed and sent to the admissions office.
5. Submit entrance examination scores. The Scholastic Aptitude Test (SAT) [George Fox code is 4325] or American College Test (ACT) [George Fox code is 3462] will be accepted. The writing portion of the ACT is not required. Tests should be taken in your junior year or early in your senior year. Contact your high school principal or counselor for information concerning these tests. Soon after the admission file is completed, the applicant is notified of the Admissions Committee's decision. Updates to test scores will be considered until Feb. 1.
6. If applying for financial aid, a Free Application for Federal Student Aid (FAFSA) must be submitted online at fafsa.ed.gov as soon after Oct. 1 as possible. The George Fox code for FAFSA is 003194. Forms may be obtained from high school counseling offices or by writing to Student Financial Services at George Fox University. After students have been accepted for admission, they are considered for financial assistance. To permit maximum consideration for financial aid, it is recommended that the application process be completed by March 1.
7. An enrollment deposit of \$300 must be submitted by each new student. This deposit reserves housing and a place in the registration sequence, so the deposit should be submitted as soon as possible following notification of acceptance. For fall semester, deposits are due by May 1 and are fully refundable until that date. After May 1, all deposits are nonrefundable. For spring semester, deposits are due by Dec. 1 and are nonrefundable.

Admission Procedures and Policies for Transfer Students

1. Apply online and visit our admissions page for admissions and application requirements.
2. Complete the Application for Admission. A \$40 application fee will be due at the time of a submitted online application (if after Nov. 1 Early Action Deadline). The priority due date is March 1 for fall semester and Nov. 1 for spring semester.
3. Request an official transcript from each college where previously registered. An applicant may also be asked to furnish a high school transcript.
4. Transfer students applying for admission during the first year out of high school should submit entrance examination scores. The Scholastic Aptitude Test (SAT) or American College Test (ACT) will be accepted. You will also need to submit your final high school transcript.
5. Have one recommendation form completed and sent to the admissions office. A student must be free from academic or behavioral probation or suspension at all colleges previously attended to be eligible for admission to George Fox University. Soon after the admission file is completed, the applicant is notified of the Admissions Committee's decision.
6. If applying for financial aid, a Free Application for Federal Student Aid (FAFSA) must be submitted online at fafsa.ed.gov as soon after Oct. 1 as possible. The George Fox code for FAFSA is 003194. Forms may be obtained from your current college financial aid office or by writing to Student Financial Services at George Fox University. After students have been accepted for admission, they are considered for financial assistance. To permit maximum consideration for financial aid, it is recommended that the application process be completed by March 1.
7. An enrollment deposit of \$300 must be submitted by each new student. This deposit reserves housing and a place in the registration sequence, so the deposit should be submitted as soon as possible following notification of acceptance. Until May 1, it is refundable by written request. After May 1 a deposit is not refundable. The spring semester enrollment deposit deadline is Dec. 1 and is not refundable after that date.

Transfer credit policies can be found [here](#).

Readmission of Former Students

To apply for readmission after a withdrawal from the university, a student should submit an Application for Readmission to the Office of Undergraduate Admissions. By May 1, a \$300 enrollment deposit must be submitted by each readmitted student. Until May 1, it is refundable. The spring semester enrollment deposit deadline is Dec. 1 and is not refundable after that date. Generally, readmitted students must meet any new or revised graduation requirements as listed in the catalog at the time of readmission.

Students who drop out to attend another program risk acceptance of that credit on return unless such has been approved by the registrar prior to leaving.

Advanced Placement

Past learning and present ability may recommend that course work begin at an advanced level. This may involve granting of credit or waiving certain prerequisites or university requirements. See General Education Requirements and Course Challenge Programs for more information.

International Students

George Fox University is authorized under federal law to enroll nonimmigrant alien students. Prospective students who are not U.S. citizens are encouraged to apply early. To be considered for admission, an international student must complete all general admission procedures required of American students and submit a Declaration of Finances form or demonstrate adequate funds by a certified bank statement. Immunizations must be up to date and documented.

International students (F-1 visa students or J-1 visa students) must show proficiency in the English language. The following table lists required levels of proficiency based on the language assessment and the corresponding placement in George Fox University coursework:

Paper-Based TOEFL	Internet-Based TOEFL	IELTS	Placement at George Fox University
550+	79+	5.5+	Regular degree coursework
500-540	61-78	5	Regular degree coursework with English tutorial support
Below 500	Below 61	Below 5.0	English Language Institute coursework

High School Nongraduates

A student who does not hold a high school diploma may be admitted on the basis of the General Educational Development (GED) test as follows:

- A GED received after December 2013 requires a standard score of at least 145 on each of the four subject examinations, with a total score of 660 or higher
- A GED received between January 2002 and December 2013 requires a standard score of at least 480 on each of the five subject examinations, with an average battery score of 530 or higher.

A high-school or two-year-college counseling center can supply testing details.

Special Students-Conventional

Program Details

The special student program is for high school graduates who do not intend to enter a degree/certificate program **OR** those who plan to enter a degree/certificate program at a later time, but would like to take classes before being formally admitted to a degree/certificate program. Enrollment is at the discretion of George Fox University.

Fees:

- A \$40 registration fee will be added to your account for processing your registration. This fee will be added each semester you attempt to register for classes.
- Tuition is billed at current per credit rates for each program. See the Student Accounts page for the specific per credit rates.
- Additional fees may apply based on program. See the Student Accounts page for more information.
- Summer Online sessions for undergraduate courses: Students pay traditional undergraduate tuition, which is 50 percent of the full traditional undergraduate tuition in fall and spring.
- All registered students must complete Vehicle Registration through MyGeorgeFox, even if a vehicle will not be used on campus. Parking permit fees may apply. Please contact Campus Public Safety for more information.

What do I need to know?

1. The special student application is **due** in the registrar's office before or by the end of the first week of the semester. See specific semester dates on the academic calendar.
2. A special student registration form must be completed each semester you intend to enroll. List the class you would like to take, including the course section (example: ECON 201 C Principles of Microeconomics).
3. Enrollment is allowed on a **space-available basis** only. Any course pre-requisites must be met in order to be registered for the requested class. Your registration will be processed on the first day of the semester.
4. Undergraduate (100-499 level) and graduate (500-799) courses may be taken for credit or audit. Special student registration is not allowed for zero-level certificate courses.
5. All courses require professor and department chair permission to enroll. The registrar's office will contact the department for you once your application has been received.
6. Courses in the following programs do not allow special student registration:
Undergraduate: Art and Design (ARTS, ARTD, INTD), Theology (THEO).
Graduate: Master of Arts in Teaching (MAT), Full-time Master of Business Administration (MBA), Doctor of Physical Therapy (DPT) and Doctor of Ministry (DMin) , and programs using the cohort model or requiring admission to the major.

7. Regular admission is required to enter a degree/certificate program. Please contact the Office of Admissions for more information. Special student enrollment does not guarantee subsequent admission to any degree/certificate program.
8. Up to 12 credit hours can be applied toward a degree program.
9. Employees of the university should refer to the Human Resources web page for information on tuition remission requirements, deadlines, and applications.

Application Procedure

1. Search the Class Schedule to find a listing of available courses.
2. Browse the Catalog for course descriptions.
3. Complete the Online Application.
4. Some courses require permission from the department. The Registrar's Office will contact the department for you once your application has been received.
5. On the first day of class, the student should contact the registrar's office to determine if space is available for the course. If the space is available, the student will be admitted to the class and charged tuition, course and lab fees if applicable.

Questions?

If you have questions, please contact the registrar's office at 503-554-2218 or by email at registrar@georgefox.edu.

Special Students-High School

High School Students

Program Details

A High School Special Student program is available to qualified high school students. This permits study in undergraduate courses at George Fox University while a student completes a high school program. Enrollment is at the discretion of George Fox University.

Eligibility Requirements

- An applicant must have completed the sophomore year of high school.
- An applicant who graduated from high school more than six months ago is not eligible.
- Students must receive grades of C or better in George Fox classes to continue taking classes as a High School Special Student.

Fees

- Students pay a \$40 registration fee each semester.
- Fall or Spring terms: Students pay \$50/credit
- Summer Online Sessions: Students pay traditional undergraduate tuition, which is 50 percent of the full traditional undergraduate tuition in fall and spring. See the Student Accounts page for the specific per credit rates.
- Additional fees may apply for students registered for 5 or more credits. See the Student Accounts page for more information.
- All registered students must complete Vehicle Registration through MyGeorgeFox, even if a vehicle will not be used on campus. Parking permit fees may apply. Please contact Campus Public Safety for more information.

What do I need to know?

1. The special student application is **due** in the registrar's office before or by the end of the first week of the semester. See specific semester dates on the academic calendar.
2. Students are **limited to one class** per fall and spring semesters.
3. Students are limited to three classes in the Summer Online sessions during summer semester.
4. A maximum of 12 credits can be accrued as a High School Special Student.
5. A special student registration form must be completed each semester you intend to enroll. List the class you would like to take, including the course section (example: ECON 201 C Principles of Microeconomics).
6. Enrollment is allowed on a **space-available basis** only. Any course pre-requisites must be met in order to be registered for the requested class. Your registration will be processed on the first day of the semester.

7. All courses require professor and department chair permission to enroll. The registrar's office will contact the department for you once your application has been received.
8. Courses in the following programs do not allow special student registration: Undergraduate: Art and Design (ARTS, ARTD, INTD), Theology (THEO), and programs requiring admission to the major.
9. Regular admission is required to enter a degree/certificate program. Please contact the Office of Admissions for more information. Special student enrollment does not guarantee subsequent admission to any degree/certificate program. At the point of admission to a degree program, students will be required to pay the regular tuition rate.
10. Employees of the university should refer to the Human Resources web page for information on tuition remission requirements, deadlines, and applications.

Application Procedures for High School Special Student

1. Search the Class Schedule to find a listing of available courses.
2. Browse the Catalog for course descriptions.
3. Download an application.
4. Submit the application to the registrar's office.
5. All courses require department permission to be registered. The registrar's office will contact the department for you once your application has been received.
6. On the first day of class, the student should contact the registrar's office to determine if space is available for the course. If the space is available, the student will be admitted to the class and charged course and lab fees if applicable.

Questions?

If you have questions, please contact the registrar's office at 503-554-2218 or by email at registrar@georgefox.edu.

Adults 62 and older

Program Details

Any person **62 years of age or older** may be eligible to enroll in traditional undergraduate courses at the discretion of the university.

Fees

- Undergraduate Courses:
 - # Fall & Spring Terms: \$50/credit
 - # Summer Online Sessions: Regular traditional undergraduate per credit tuition applies, which is 50 percent of full traditional undergraduate tuition in fall and spring. See the Student Accounts page for the specific per/credit prices.
- Students must pay all applicable special course and lab fees.
- Additional fees may apply for students registered for 5 or more credits. See the Student Accounts page for more information.
- All registered students must complete Vehicle Registration through MyGeorgeFox, even if a vehicle will not be used on campus. Parking permit fees may apply. Please contact Campus Public Safety for more information.

What do I need to know?

1. The Special Student application is **due** in the registrar's office before or by the end of the first week of the semester. See specific semester dates on the academic calendar.
2. Adults 62 Special Students are not eligible to participate in institutional financial aid programs.
3. Adults 62 Special Students are limited to 12 credits per fall or spring semester.
4. Adults 62 Special Students are limited to three classes in the Summer Online sessions during summer semester.
5. A special student registration application must be completed each semester you intend to enroll. List the class you would like to take, including the course section (example: ECON 201 C Principles of Microeconomics).
6. Enrollment is allowed on a **space-available basis** only. Any course prerequisites must be met in order to be registered for the requested class. Your registration will be processed on the first day of the semester.
7. Courses in the following programs do not allow special student registration: Undergraduate: Art and Design (ARTS, ARTD, INTD), Theology (THEO), and programs requiring admission to the major.
8. All courses require professor and department chair permission to enroll. The registrar's office will contact the department for you once your application has been received.
9. Regular admission is required to enter a degree/certificate program. Please contact the Office of Admissions for more information. Special student enrollment does not guarantee subsequent admission to any degree/certificate program. At the point of admission to a degree program, students will be required to pay the regular tuition rate.

10. A maximum of 12 hours taken as a special student through the Adults 62 Special Student Program may transfer to a degree program.
11. Employees of the university should refer to the Human Resources webpage for information on tuition remission requirements, deadlines and applications.

Application Procedure

1. Search the Class Schedule to find a listing of available courses.
2. Browse the Catalog for course descriptions.
3. Complete the online application.
4. All courses require department permission to be registered. The registrar's office will contact the department for you once your application has been received.
5. On the first day of class, the student should contact the registrar's office to determine if space is available for the course. If the space is available, the student will be admitted to the class and charged course and lab fees if applicable.

Questions?

If you have questions, please contact the registrar's office at 503-554-2218 or by email at registrar@georgefox.edu.

Spouse Enrollment Program

Spouses of full-time undergraduate and graduate George Fox University students may take traditional undergraduate courses, without credit, at a reduced rate. After completing a part-time application form and paying a \$40 fee, the spouse may take up to two courses per semester for \$50 per credit.

Audited courses are not eligible to be converted to credit at a later date.

Academic Opportunities

George Fox University offers the following opportunities that support the mission of the traditional undergraduate program at the university:

Academic Success Program

English Language Institute (ELI)

Juniors Abroad

Semesters Off Campus

Consortium Visitor Program

Academic Success Program

Academic Success Program

A limited number of carefully selected students who do not meet regular admission standards are welcomed to the George Fox University Academic Success Program (ASP) each fall. Admitted provisionally to the university, ASP students attend an afternoon orientation before other students arrive. Under the individualized guidance of the ASP director and faculty advisors, they register for fall courses. Tutorial assistance and other aids are available, as needed. Total hours are limited to 16 for fall semester. An academic standing of Provisional Admission will appear on ASP students' official and unofficial transcripts upon admission but will be removed from the transcript after the completion of one semester.

Consortium Visitor Program

The Christian College Consortium Exchange sponsors a student visitors program intended as an enrichment to those disciplines where personnel and courses may be somewhat limited. Normally this one-semester experience should be part of the junior year or the first semester of the senior year. Application forms and a descriptive brochure are available from the registrar.

The other 12 members of the Christian College Consortium are Asbury College, Wilmore, KY; Bethel College, St. Paul, MN; Gordon College, Wenham, MA; Greenville College, Greenville, IL; Houghton College, Houghton, NY; Malone College, Canton, OH; Messiah College, Grantham, PA; Seattle Pacific University, Seattle, WA; Taylor University, Upland, IN; Trinity College, Deerfield, IL; Westmont College, Santa Barbara, CA; and Wheaton College, Wheaton, IL.

Although spending a semester at another Christian institution can be very beneficial, there are budgetary limits on the number of students that can be approved for off-campus, semester-long programs. Students should not assume they will automatically be approved for the Consortium Visitor Program and may want to consider applying for one of the other programs as well.

The program permits a student in good standing to enroll for one semester at one of the other consortium colleges. Qualifying students must have at least a 3.0 grade point average, have completed prior to application one or more semesters free of academic or citizenship probation, and have been approved by the selection committee.

Selection to the above programs will be based on the academic purposes involved, grade point average, citizenship, classification, and the extent to which the student has or has not had diverse educational experiences.

English Language Institute (ELI)

The purpose of the English Language Institute (ELI) is to develop the language and academic skills of students whose native language is not English and to raise their level of cultural and spiritual awareness in order to prepare them for academic and social success at George Fox University.

The Intensive English Program, taught in the ELI at George Fox University, prepares international students to meet the challenges of academic study in English.

International students who score less than 500 on the paper-based Test of English as a Foreign Language (TOEFL), less than 173 on the computer-based TOEFL, less than 61 on the Internet-based TOEFL, or less than four on the Test of Written English will study intensive English approximately 14 hours per week while they also are enrolled in one or two regular university courses. ELI students may take up to 19 hours a semester, with a maximum of 4 credits of non-ELI course work.

To prepare international students to enter into academic life at George Fox University as full and successful participants, ELI courses develop the students' general English proficiency, academic skills, and cultural, spiritual, and social awareness. Lower-level courses stress basic language skills, whereas higher-level courses concentrate increasingly on academic skills.

The core courses at each level develop speaking, listening, reading, and writing skills, as well as vocabulary and grammar. Cultural orientation, interaction with native speakers in the university community, and attendance at campus functions and academic lectures are incorporated into ELI learning activities.

At the highest level, students enroll for credit in one regular academic course together with ELI courses that are designed to help develop the language and academic skills necessary for success. In order to successfully complete the ELI and be admitted to George Fox University as a traditional undergraduate, students must fulfill the following: write at level 4 or higher on the ELI writing test; successfully complete the advanced level of the ELI with a grade of at least C in every class; earn a grade of at least C (no less than 70 percent) in the designated regular academic course; receive the recommendation of ELI faculty based on English language skills and academic performance. After completing the ELI, international students enroll for at least 12 credits in non-ELI courses at George Fox and pay regular tuition. During their first semester they are also required to take ESLA 295 Writing Tutorial (1) to support their transition.

Students receive academic credit for their ELI course work as follows: up to 16 credits for 100-level courses and up to 15 credits for 200-level courses. ELI credit counts as elective credit toward a bachelor's degree.

Juniors Abroad

In order to enrich the intercultural and international awareness of our campus community, George Fox University offers a transportation-subsidized overseas course of approximately three weeks to any junior student who has fulfilled the following requirements. These tours occur during the annual May Term. Detailed information about eligibility and specific study tours is available from the director of Juniors Abroad.

Objectives

The student who successfully participates in Juniors Abroad will:

1. Experience cross-cultural learning opportunities in cultures distinctly different from their own;
2. Interact with the host culture through informal and formal contacts;
3. Experience what it means to be a cultural "minority";
4. Understand how to participate responsibly in a diverse global community;
5. Learn, through the study of disciplines such as the fine arts, language, science, architecture, or history, how various social institutions affect the host culture.

Policies

1. Students must have maintained three consecutive years of full-time enrollment. Transfer students may receive partial support for transportation expenses; requests for such support should be made to the director of Juniors Abroad.
2. Students must register for either GEED 355 Cross-Cultural Experience-US or GEED 365 Cross Cultural Experience-International.
3. Tuition costs of this course can be included as part of block tuition for the spring semester preceding the May Study-tour. Students will be billed for whatever credits exceed the 18 credit-hour block tuition limit.
4. Students will pay room and board and other fees, in advance, for each study-tour for which they enrolled. All transportation and accommodations are arranged by the university. For the typical Juniors Abroad study-tour, the university will pay the full transportation cost for eligible students. On occasion, a tour with unusually high costs may involve a transportation surcharge.
5. Students must have a minimum cumulative grade point average of 2.0 at the end of the fall semester preceding the May study-tour.
6. Lifestyle violations, as reported by the Office of Student Life, may affect a student's eligibility to participate (see Standards of Conduct).
7. Students must obtain approval from the Health and Counseling Center before final approval will be given for a specific study-tour.
8. The University reserves the right to disallow a student from participation if it is deemed to be in the best interest of the student or the study-tour group.
9. Students must intend to return and graduate from George Fox University.
10. Student accounts must be current as of Feb. 15 the year of the tour.
11. The university reserves the right to withdraw from this program and commitment prior to fall registration in any year. Students already registered under the program are guaranteed the study-tour.

12. In the event of an international monetary, military, or other crisis, the university reserves the right to cancel or postpone a study-tour or to make substitute arrangements.
13. The university does not obligate itself to alternative remuneration to students who cannot go, who decide not to go, or who are ineligible to go on a Juniors Abroad study-tour.

Students (or alumni or friends of the university) who are ineligible for free transportation may apply to join a study-tour and pay their own transportation and tuition, on a space-available basis. Eligibility will be determined on a case-by-case basis.

Semesters Off Campus

Introduction

Students enrolled at George Fox University may enrich their learning experience and in some cases fulfill important requirements for their major or minor by participating in one of the approved programs listed below. For those approved to participate, the cost is similar to staying on campus. Complete information about the programs and the application processes is available in the Center for Study Abroad and on the George Fox University website.

Eligibility

- Student must have sophomore standing, including 31 semester hours completed, at the time of application for a semester off campus. Exceptions may be made if necessary for completion of a student's major requirements.
- Student must be enrolled at George Fox for a full academic year prior to participation in a semester off campus. Exceptions may be made if necessary for completion of a student's major requirements.
- Student must be in good standing with Student Life.
- Student must be current with student financial accounts.
- Student must have a minimum cumulative GPA of 3.00 to apply for a semester off campus. Exceptions will be granted to students in good academic standing if a semester off campus is required for completion of the student's major or minor requirements. Students applying to the Scholars' Semester in Oxford must have a minimum cumulative GPA of 3.5.
- GPA will be one of the factors considered by the committee that selects George Fox students to participate in the Semesters Off Campus programs.

Application Process

- Meet with your academic advisor to determine the impact on completing the major and other graduation requirements.
- Obtain the application form from the Center for Study Abroad or the George Fox website.
- Submit the form and its required attachments (faculty recommendation, transcript request, essay on your interest in the program) as well as the required signatures from various offices on campus to the registrar's office. The materials are due at the end of the first week of classes in the spring semester.

Selection Process

After the deadline, the Off Campus Selection Committee meets to review the applications and accepts or rejects them, based on the requirements listed above. The director of global studies then notifies the applicants of their acceptance or rejection.

Semesters Off Campus: Course Disciplines

The following course disciplines are used by George Fox University to record coursework completed by students at approved programs:

Course Prefix	Semester Off-Campus Program
CONS	Christian College Consortium Exchange Program
XAMB	Germany AMBEX Program
XAMS	American Studies Program (Washington, D.C.)
XCMC	Contemporary Music Center (Nashville, TN)
XFSD	Semester in Dijon, France CIEF
XGEA	Go ED. Africa Program (Rwanda)
XGEM	Go ED. Mekong, Thailand Program
XJPN	East Asia Institute, Japan
XLAF	Los Angeles Film Studies Center
XLLE	Living and Learning in Quito, Ecuador Program
XLSP	Latin American Studies Program, Costa Rica
XLTH	Study Abroad at LCC International University
XMES	Middle East Studies Program
XNIS	Northern Ireland Semester
XORV	Gordon in Orvieto Program, Italy
XORX	Oregon Extension (Houghton College)
XOXF	Scholars' Semester in Oxford, England
XRMS	Romania Studies Program
XSAL	University of Salamanca, Spain
XSSP	Semester in Senegal Program
XTRY	Semester in Spain Program
XUGS	Uganda Studies Program
XVBR	Veritas in Florianopolis, Brazil
XVCH	Veritas in Valparaiso, Chile
XVCR	Veritas in San Jose, Costa Rica
XVCZ	Veritas in Prague, Czech Republic
XVEN	Veritas in London, England
XVFR	Veritas in Paris, France
XVIT	Veritas in Rome, Italy
XVNZ	Veritas in Dunedin, New Zealand
XVPR	Veritas in Cusco, Peru

XVSA
XVSC
XVSK
XVSP

Veritas in Cape Town, South Africa
Veritas in Scotland
Veritas in Seoul, South Korea
Veritas in Sevilla, Spain

Academic Calendar 2019-2020

Fall Semester

Fall Semester Begins.....	August 26, 2019
Last Date for Special Student Class Registration	August 30, 2019
Last Date for Adding Classes Online (without Instructor Approval).....	September 1, 2019
Labor Day Holiday (non-Newberg locations only)	September 2, 2019
Last Day to Change Registration (Add/Drop)	September 8, 2019
Last Day to Submit Application for Degree (Midyear Commencement Participation)	September 8, 2019
Census Date.....	September 10, 2019
Serve Day.....	September 11, 2019
Last Day to Exercise Pass/No Pass or Audit Option	September 20, 2019
Mid-Semester Holiday (Newberg only)	October 4, 2019
Mid-Semester Grade Entry	October 12-16, 2019
Registration for Spring Semester Opens for Graduate and ADP Students	October 21, 2019
Last Day to Withdraw from Class without Grade Responsibility	November 3, 2019
Transfer Credit Transcript Due Date (Midyear Commencement Participation).....	5:00 pm, November 15, 2019
Last Day to Request Participation in Midyear Commencement with Incomplete Requirements	November 17, 2019
Thanksgiving Holiday	November 28-29, 2019
Dissertation Signed Approval Sheets Due (Midyear Commencement Participation)	5:00 pm, November 29, 2019
Study Day (Traditional Undergraduate)	December 9, 2019
Final Exams (Traditional Undergraduate).....	December 9-13, 2019
Fall Semester Ends.....	December 13, 2019
Midyear Commencement	December 14, 2019
Christmas/New Year's Break	December 14, 2019 – January 12, 2020
Final Grade Entry Deadline	December 22, 2019

Spring Semester

Spring Semester Begins	January 13, 2020
Last Date for Special Student Class Registration	January 17, 2020
Last Date for Adding Classes Online (without Instructor Approval).....	January 19, 2020
Martin Luther King Jr. Holiday	January 20, 2020
Last Day to Change Registration (Add/Drop)	January 26, 2020
Last Day to Submit Application for Degree (Spring Commencement Participation)	January 26, 2020
Census Date.....	January 28, 2020
Last Day to Exercise Pass/No Pass or Audit Option	February 7, 2020
Mid-Semester Holiday	February 14, 2020
Registration for Summer Semester Opens	February 24, 2020
Mid-Semester Grade Entry	February 29 - March 4, 2020
Juniors Abroad Registration	March 13, 2020
Registration for Fall 2020 and Spring 2021 Opens for Traditional Undergraduates	March 16-20, 2020
Last Day to Withdraw from Class without Grade Responsibility.....	March 22, 2020
Spring Break	March 23-27, 2020
Transfer Credit Transcript Due Date (Spring Commencement Participation).....	5:00 pm, April 3, 2020
Last Day to Request Participation in Spring Commencement with Incomplete Requirements	April 5, 2020
Registration for Fall Semester Opens for Graduate and ADP Students.....	April 13, 2020
Dissertation Signed Approval Sheets Due (Spring Commencement Participation).....	5:00 pm, April 17, 2020
Study Day (Traditional Undergraduate)	April 27, 2020
Final Exams (Traditional Undergraduate).....	April 27 – May 1, 2020
Spring Semester Ends	May 1, 2020
Spring Commencement	May 2, 2020
Final Grade Entry Deadline	May 10, 2020

Academic Calendar 2019-2020

Summer Semester

Summer Semester Begins.....	May 4, 2020
Last Day to Change Summer Registration for Full Semester Classes (Add/Drop)	May 17, 2020
Memorial Day Holiday.....	May 25, 2020
Summer Online Session Begins.....	June 1, 2020
Last Day to Change Summer Online Registration (Add/Drop)	June 7, 2020
Census Date for Summer	July 1, 2020
Independence Day Holiday	July 3, 2020
Last Day to Withdraw from Summer Online Session Class without Grade Responsibility	July 5, 2020
Last Day to Withdraw from Full Semester Summer Class without Grade Responsibility.....	July 12, 2020
Summer Online Session Ends.....	July 26, 2020
Summer Online Session Grade Entry Deadline	August 2, 2020
Summer Semester Ends.....	August 21, 2020
Final Grade Entry Deadline	August 30, 2020



GEORGE FOX
UNIVERSITY

Be Known